

Meeting Minutes

March 28th, 2000

Environmental Restoration (ER) & Waste Management (WM) TPA Major Milestone Management Review

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement/TPA)

Approval: Michael A. Wilson Date: 6/27/00
Michael A. Wilson (B5-18)
Chairperson
Ecology IAMIT Representative

Approval: William W. (Wade) Ballard Date: 6/27/00
William W. (Wade) Ballard (A5-12)
RL IAMIT Representative

Approval: Douglas R. Sherwood Date: 6/27/00
Douglas R. Sherwood (B5-01)
EPA IAMIT Representative

Minutes Prepared by:

Approval: Deborah F. Iwatate Date: 6-21-00
Deborah F. Iwatate (A1-14)
Fluor Hanford, Inc.

DISTRIBUTION

Arnold, J. S.	BHI	H0-11	Morrison R. D.	FH	A1-14 *
Ballard, W.	RL	A5-12 *	Moy, S. K.	RL	H0-12
Cusack, L.	Ecology	B5-18 *	Piippo, R. E.	FH	A1-14 *
Dagan, E. B.	RL	A5-15 *	Richards, J.	CTUIR	
Faulk, D. A.	EPA	B5-01	Rodriguez, H. M.	RL	A5-15 *
Murphy-Fitch, E.	FH	A1-14	Rowland, D.	YN	*
Gerton, R. E.	RL	H0-12	Sanders, G. H.	RL	A5-15 *
Gunion, C. H.	RL	A5-16	Sherwood, D. R.	EPA	B5-01 *
Hedges, J. A.	Ecology	B5-18 *	Sobczyk, S.	Nez Perce	
Heggen, R.	Ecology	B5-18	Soper, W.	Ecology	B5-18
Hertzel, J. S.	FH	A1-14 *	Stanley, R.	Ecology	Lacey *
Hojner, R. S.	BHI	H0-11	Stone, A. B.	Ecology	B5-18
Hughes, M. C.	BHI	H0-11 *	Taylor, W. J.	ORP	H6-60 *
Iwatate, D. F.	FH	A1-14 *	Warren, R. N.	RL	H0-12
Jarvis, M. F.	RL	A5-15 *	Wilson, M. A.	Ecology	B5-18 *
Riess, M. J.	CHG	A1-14 *	Wooley, T. A.	Ecology	B5-18
McDonald, K. H.	FH-WM	H8-44	Yerxa, J. K.	RL	A5-15
			Administrative Record	EDMC	H6-08 *

* w/Attachments

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General

- Initials provided with comments (below) are keyed to the attendees/distribution list for these minutes.
- **Mike Hughes** (with T. Arnold and Scott Hojner) presented for ER
- **LC** - Comment regarding the degree of involvement of Ecology in the presentation materials. Reminded attendees that there is an IAMIT directive requiring that the presentations to be a joint, Tri-Party, effort. Stated that Ecology has not been involved in the preparation of the presentation and therefore they tend to present DOE's opinion and not reflect Ecology's opinion/concerns. Ecology requested that the DOE involve Ecology in the preparation of the presentations.
- Presentation material is provided in the Attachment 1/Handout.

M-13-00 Complete RI/FS Submittals

R. E. Gerton/J. L. Walsh

- **DF** - Noted that EPA was not involved in the F-Area Remediation activity because it was moving so fast. Didn't feel that this was a problem. Noted that they [EPA] felt there was need for a Waste Control Plan.

M-15-00 RI/FS Process Completion

R. E. Gerton/J. L. Walsh

- **Site Investigations / Feasibility Studies** - noted that this item will become more active when the 200 Area work begins to ramp up.
- **M-15-23B and M-15-00B (300 Area Remediation)** - Comments on Draft-A 300-FF-2 Operable Unit FFS and Proposed Plan are in the resolution stage. Also, this includes discussion regarding the discovery of additional contaminated plumes in soils of the South Process Pond site.
- **MH** - indicated that a change package is presently in process regarding the plan and impact of plume growth.

M-16-00 Complete Remedial Actions

R. E. Gerton/J. L. Walsh

- Referenced in Attachment 1 Regarding remedial action and waste disposal project.
- **M-16-08B (B/C Area Remediation)**. Status during presentation as "Complete" (rather than as "Ahead of Schedule - as in the handout)... and that the completion paperwork was on its way to the regulators.
- **M-16-13A (F-Area Remediation)**.
 - 126-F-1 Ash Pit work - **DF** noted that no permit would be required for the technology demonstration (waste minimization w/gamma probe technology) that was taking place in the south portion of the site (which was thought to possibly contain some contamination). **DF** also commented that the EPA was not involved (and was not required to be involved) in this item.
- **M-16-26B EPA comments and issues**
 - **DS** - felt that if the burial ground will be included in the ROD for the end of this year (in the BC pipeline) then they [EPA] will have to have a meeting to discuss this further.
 - **DR** - Noted that he expected to see an RFP for this work on the street by the end of this year (10/1/00). Mentioned that EPA has "had discussions" with Ecology on this item.

- **DH** - assumed that DR and HR will be finished by the 2/28/01 date, and that the pipelines most likely would not be completed.
- **Re: M-16-26 and the H Area Remediation (Discovery of elevated arsenic levels)**
 - **Arsenic Strategy** **MH** - thought that there was agreement on this item. Arsenic (As) believed to be from a past-practice at Hanford (formerly used as a pesticide). We need to get back together with the regulators on this. A letter has been prepared for DOE on this item including recommendations. Should keep a sense of urgency on this. We expect that there will be a difference between the Ecology and the EPA views on this item. There are day-to-day impacts and the status in the handout is out of date.
 - **DS** - Two items: 1) There are Arsenic issues across the state (including Tacoma that is cleaning up to 230 ppm vs Hanford levels of 20 ppm). They want to resolve this discrepancy for Rural/Residential levels of As (cleanup level to background). How they use the cleanup level. 2) If it was a pesticide that was used then it may have been an exempted legal application of a pesticide. This is not an issue that should stop cleanup either way. Don't make any major perturbations in the cleanup action due to As. It is believed that the problem will [eventually] go away. There should be an answer by around 4/20/00. Feels that we will find As concentrations that are over 20 ppm.
 - **MH** - The letter [being prepared for the regulators] has some of the [above] recommendations noted and will serve as a focus.
 - **DF** - Feels that the comments on the design report may be the proper vehicle for getting back to ER and will avoid the need to have multiple letters floating around. Levels won't be set for about/at least another month.
- **200-UP-1:** Main issue is that costs have been accrued to process the UP-1 water and that this will impact longer term operation. Extension of operations is not in the long-range operation considerations and DWP.
 - **DS** - This might end up costing us more for other feeds that lead into the UP-1.
 - **MH** - That is the reason why we need to look at the whole system.
- **200-ZP-2:** Continued operation of the VEU. DOE letter in the works.
 - **DS** - EPA will sign the letter and there should be a concurrence line for them to sign off.
 - **200 Area RI/FS:** re: Contaminated soil. Out-year funding is not available. This item needs more discussion.
- **Off-site resin generation:**
 - **DF** - EPA asked DOE to look closely at this item. Felt that this looked pretty ugly and in need of attention to the clarify issue.
- **Waste Handling:** Gave up some time to work out the issue. A letter and a detailed plan (with recommendations) has been provided to the regulators.
 - **MH** - Need to get concurrence/input from regulators to get back on line. (Action)
- **Waste Control Plan:**
 - **DS** - Has a problem with the issue statement... and we/EPA will not sign off on the meeting minutes with the "offending statement" (to the regulators) included. This is regarding the statement that, "...only Ecology approved the plan." It will have to be noted that either... EPA does not agree with the statement, or it should be struck from the minutes.
 - **MH** - Stated that they will remove the offending sentence from the meeting minutes/status. (Action)
- **Waste Control Plan/Biosite:**
 - **DS** - wants to make sure that the storage of waste in the 200 Area biosite be included in the next months IAMIT agenda. (Action: include in next IAMIT meeting and refer to this request)
- **Surveillance and maintenance:**
 - **AS** - stated that perhaps there is more of an issue here than is stated in the status... regarding the leakage of the Purex roof. Ex.: Where is the leakage going? What is the path of flow?
 - **TW** - thought that this was not an issue in the past, but may not be well understood now.

- **MH** - they will make recommendation to DOE and will deal with it from that point of contact. (Action)
- **Stack Ventilation:**
 - **TW** - wondered who had been contacted regarding the "New Date" [that was cited in the status]
 - **MH** - said that he would get back to Ecology/TW on this information. Action
- **CDI Funding:** An issue was discussed regarding the status/possibility of matching funds to support EM-50.
- **FY2001-ISS Funding:** Need to get together with the regulators to work this item. Retention of critical resources and maintain project/process momentum. Need to select the right option that doesn't spoil this progress and plan. (ISS = Interim Safe Storage)
 - **DS** - recognizes the funding issue and the way it has been handled in the past. As we move the activities ahead we need to make sure that the TPA items are taken care of also.
- **D&H Reactor Impacts of TPA Milestones:**
 - **AS** - wanted to know who was the DOE contact.
 - **DF** - said that he has the answer to this question and more information and should be contacted after the meeting. Action
- **Program Management and Support:** In the public interaction mode now. Workshops have been planned.
 - **DF** - EPA air program has suggested change to the, "Potential to Emit," elements and put together a white paper recommendation. Asked DOE to go back and check on the historical air monitor "hits" and come up with a more reasonable recommendation to the suggestion(s) in the white paper. This issue should be worked over the next month or two to arrive at a more practical state... especially regarding the minimally exposed individuals topic.
 - **DS** - wanted to have this in the status for next review meeting. (Action: include in next ER MS Review and refer to this request)
- **[300]-FF-2**
 - **DS** - questioned why this was being addressed as a groundwater monitoring item? They all sound like remediation activities to him. Concerned that there were no investments in technology development/use. No funding/\$ was applied to use/finding technology for retrieval of TRU wastes.
 - **MH** - said that they need to focus in on that question/issue and reevaluate... they will fix that statement appropriately.
- Summary/discussion on the schedule and cost status.

M-24-00 RCRA Well Installation

R. E. Gerton/J. L. Walsh

- **M-24 Series - Groundwater and Vadose Zone:** These activities are "moving forward" and will keep everyone up to speed as it proceeds.
- **Well installation:** In dispute. More later (IAMIT).
 - **WB** - an ORP issue and it's on the [3/00] IAMIT agenda (for later this day).

M-93-00 Disposition of Surplus Reactors

R. E. Gerton/J. L. Walsh

- Re: Reactors on the river / final disposition - the "TBD" was revised/statused in the presentation as "CLOSED"

M-19-00 Mixed Waste Treatment

S. Moy/R. N. Warren

- Attachment 2 provides presentation notes.

M-91-00 Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3

R. F. Guercia/E. S. Aromi/R. N. Warren

- **M-91-03:**
 - **Submit Hanford Site TRU/TRUM PMP to Ecology...** RW - the PMP will be completed early and transmitted to DOE.
- **M-91-04:**
 - **TW** - noted that the W-113/construction of facilities was not ongoing and that it has been determined that the methodology being used would not require facility construction. The intent of the ms is being met without the need for facilities. Wondered if keeping the wording would pose a problem for funding/planning.
 - **RW** - responded that the budget basis and language takes this into account.
 - **DS** - related some of the history of the milestone and requirements and was in agreement with the consensus that no facility was needed to complete the milestone.
- **M-91-12:**
 - **TW** - commented that he still hadn't received the appendixes to the PMP yet.
 - **RW** - said that these will be coming. There was some further discussion to ensure that the "status" of the CR in the PMP was understood.
 - **LC** - wanted to make sure that there was communication to avoid the problem from last year where the CR was prepared at the last moment. Also, clarified the uniqueness of the PMP in regard to establishing the technical pre-conceptual basis for some decision-making.
- **M-91-07:** W-113 doesn't exist and the milestone is now more for the completion of the retrieval action. The request is being made to complete this milestone on schedule. Funding issue is related to disposing of the amount of drums/waste in the milestone.
- **MLLW PMP**
 - **LC** - noted that the Ecology did not agree with the PMP. Ecology did not have comment initially and LC noted that this was more due to resource problems.
 - **TW** - also said that Bob Julian was not too happy with this.
 - **LC** - Note for the minutes: Ecology does not, at this time, agree with the CR package, and that this will have to be worked further.
 - **DS** - also noted that without the signoff by the parties then it was indeed not approved.
 - **RW** - stated that, if this is the case, then we will have to work to get this package approved. (Action)
- **M-91-04:**
 - **TW** - stated that he was still working up to speed on the letter that was sent over claiming that the milestone had been met and was complete.
 - **RW** - noted that a letter back would greatly help to establish that the track was correct. The schedule for completion is not a match to the funding profile.
 - **DS** - question about whether the bottleneck was disposal, retrieval, etc..
 - **KM** - added that the problem was only with the funding... they have somewhere to put the drums, and they have the technology and methodology to do the task.

- **RW** brought up the lack of sync for the **TRU/TRUM PMP** with the issue of the EIS. Not wanting to prejudice the EIS and not wanting to wait for the EIS to get the PMP work done. Working hard to maintain consistency with the SW-EIS.
- **TW** - suggested that a "sensitivity analysis" of this relationship would help.
- **DS** - felt that this was a flag that there was now a move to reconsider the EIS decision to consider TRU/TRUM. **RW** - stated that there was full intention to pursue retrieval of all the TRU/TRUM task. There are risks associated with that action.
- **RM** - the SW-EIS does not offer an alternative... that would not be available until the issue of the ROD is settled. The issue is that the logic between the EIS and the PMP is out of sync. Should we shelve the PMP until the ROD is issued on the EIS, or should that continue with the PMP and modify later?
- **DS** - The PMP is driven by the TPA, which states how the waste will be managed. If the EIS disagrees with the TPA mandate then there is trouble ahead. The PMP should define the retrieval, disposal, treatment technology needed for the TRU/TRUM. The EIS must not interfere or restate this goal.
- **RW** - we don't want the PMP to disagree with the EIS.
- **DS** - I know that THAT WILL HAPPEN, and it should not happen. He will be very surprised if we come up with a PMP that does not argue with the EIS. Coming out with the PMP ahead of the EIS, and in possible conflict, is not a problem with EPA/regulators.

ATTENDEES

TPA MILESTONE REVIEW

DATE: 3-28-2000

NAME	ORGANIZATION	MAILSTOP	(✓) FOR ATTACHMENTS
Deborah Iwatate ✓	FH-TPA1	A1-14	✓
JON YERXA ✓	DOE-ORL	A5-15	
EJ Murphy Rich ✓	FH-TPA1	A1-14	✓
R SCOTT HOJNER ✓	BHI	H0-11	
Michael C. Hyman ✓	BHI	H0-11	✓
CLARK GUNION ✓	DOE	A5-16	
J.S. Arnold ✓	BHI	H0-11	
Joe Richards ✓	CTUA Hanford 48	750 SWIFT BLVD Suite 12 Richland, WA 99352	✓
Wayne Sepp ✓	Ecology		
Jane DeGoo ✓	Ecology		
Ted Worley ✓	Ecology	B5-18	
Ellen Dagan ✓	DOE-ORL	A5-15	✓
Ron Gerto ✓	DOE-RL		
JEFF HERTZEL ✓	FH-TPA	A1-14	

ATTENDEES

TPA MILESTONE REVIEW

DATE: 3-28-2000

NAME	ORGANIZATION	MAILSTOP	(✓) FOR ATTACHMENTS
<u>WADE BALLARD</u> ✓	<u>DOE-RL</u>		
<u>LAURA CUSACK</u> ✓	<u>Ecology</u>		
<u>DOUG SHERWOOD</u> ✓	<u>EPA</u>		
<u>DENNIS FALK</u> ✓			
<u>DAVE ROWLAND</u> ✓	<u>YAKAMA NATION</u>		
<u>Stan Sobczyk</u> ✓	<u>Nez Perce ERU-M</u>		
<u>Alex Stone</u> ✓	<u>Ecology</u>		
<u>Kent McDonald</u> ✓	<u>FH-Waste Mgt Project</u>	<u>#F-44</u>	
<u>SEN MOY</u> ✓	<u>DOE-Waste MGMT</u>	<u>H0-12</u>	
<u>LAURA CUSACK</u> ✓	<u>Ecology</u>		✓
<u>Russell Warren</u> ✓	<u>DOE-RL</u>	<u>H0-12</u>	

AGENDA
TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
CHAIRPERSON: D. R. Sherwood

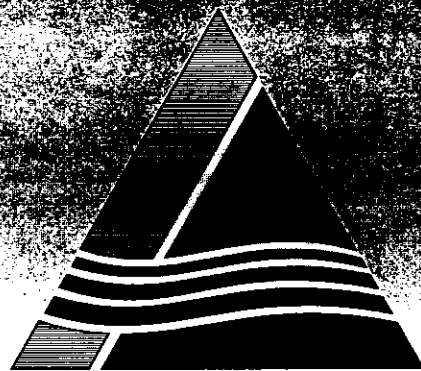
Tuesday, March 28, 2000

712 Swift Blvd., Suite 5, EPA Conference Room

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>CONTRACTOR MANAGER</u>	<u>PRESENTER</u>
9:00 am	M-13-00	Complete RI/FS Submittals	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-15-00	RI/FS Process Completion	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-16-00	Complete Remedial Actions	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-24-00	RCRA Well Installation	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-93-00	Disposition of Surplus Reactors	R. E. Gerton	J. L. Walsh	R. E. Gerton
11:00 am	M-19-00	Mixed Waste Treatment	R. F. Guercia	E. S. Aromi	S. K. Moy
11:20 am	M-91-00	Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3	R. F. Guercia	E. S. Aromi	R. N. Warren
12:00 noon	Adjourn				

Richland Environmental Restoration Project

TPA Quarterly Review



Tri-Party Agreement

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

March 28, 2000

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- Program Management & Support – ERC

4. CURRENT ISSUES

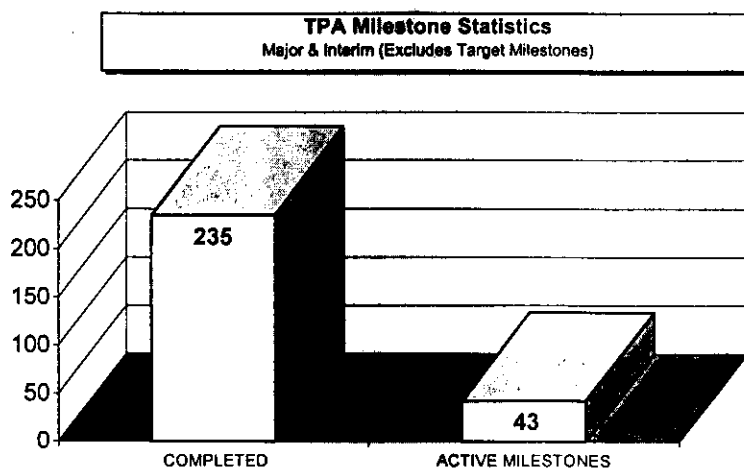
5. TECHNOLOGY INSERTION POINTS (TIPs)

6. COST/SCHEDULE STATUS

- Overview
- TPA Schedule
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ENVIRONMENTAL RESTORATION PROJECT

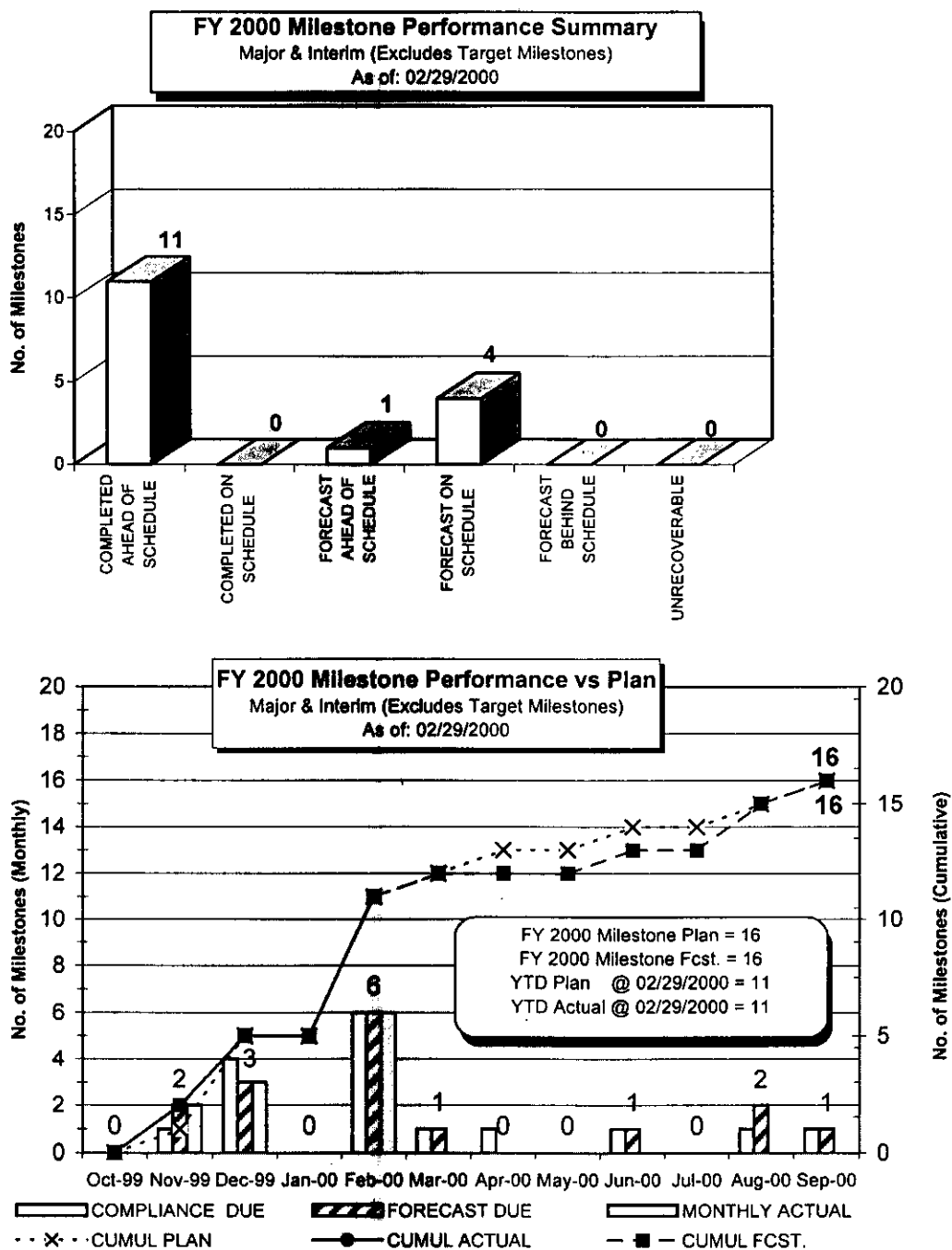
TPA First Quarter Review



TPA Milestone Statistics
Major & Interim (Excludes Target Milestones)

	Compliance Due Date	Total Active @ 2/00	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	12/31/2005 (M-13-00P)	10	M-13-00K 12/31/2000 M-13-00L 12/31/2001 M-13-00M 12/31/2002 M-13-00N 12/31/2003 M-13-00O 12/31/2004 M-13-00P 12/31/2005		M-13-22 (C) 12/31/1999 M-13-23 08/31/2000 M-13-24 08/31/2000 M-13-25 12/31/2000 M-13-26 06/30/2001	
M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00C)	2	M-15-00 12/31/2008 M-15-00A (C) 12/31/1999 M-15-00B (C) 12/31/1999 M-15-00C 12/31/2008 M-15-23B (C) 11/30/1999			
M-16-00 Remedial Design / Remedial Action	9/30/2018 (M-16-00)	15	M-16-00 09/30/2018 M-16-00A TBD M-16-00B TBD M-16-00F 12/31/2001 M-16-01 TBD M-16-03A 06/30/2002 M-16-03E 12/31/2000 M-16-03F TBD		M-16-07B 07/31/2001 M-16-08B 03/31/2000 M-16-10A 08/01/2003 M-16-13A 09/29/2000 M-16-13B 10/29/2004 M-16-26B 02/28/2001 M-16-26C 05/31/2001 M-16-92B (C) 12/31/1999	
M-20-00 Submit Closure Plans for All RCRA TSD Units	(Shared with PHMC) 2/28/2004 (M-20-54)	5	M-20-33 10/31/2003 M-20-39 02/28/2003 M-20-52 12/31/2003 M-20-53 12/31/2003 M-20-54 02/28/2004			
M-24-00 RCRA Groundwater Monitoring	12/31/2003 (M-24-00O)	4	M-24-00K (C) 02/29/2000 M-24-00L 12/31/2000 M-24-00M 12/31/2001 M-24-00N 12/31/2002 M-24-00O 12/31/2003		M-24-41 (C) 02/29/2000 M-24-42 (C) 02/29/2000 M-24-43 (C) 02/29/2000 M-24-44 (C) 02/29/2000 M-24-45 (C) 02/29/2000	
M-70-00 ERDF Operational	7/01/1996A (M-70-00)	0				
M-93-00 Reactors on River Final Disposition	TBD (M-93-00)	7	M-93-00 TBD M-93-05 06/30/2000 M-93-10 07/31/2003 M-93-11 09/30/2003		M-93-12 02/28/2002 M-93-14 06/30/2003 M-93-15 12/31/2003	
TOTAL	COMPLETED SINCE 10/99		11			

FY 2000 TPA MILESTONE PERFORMANCE



ENVIRONMENTAL RESTORATION PROJECT

TPA First Quarter Review

FY 2000 TPA MILESTONE SUMMARY AS OF 2/29/00 (Excludes Target Milestones)

Item	FY2000 Month	Milestone	Description	Compliance Due Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
						Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
1	Nov-99	M-15-23B	Submit 300-FF-2 Focus Feasibility Study (FFS) and Proposed Plan (PP) for Regulator review.	11/30/1999	11/22/1999 (A)	X						
2	Dec-99	M-13-22	Submit U Pond/Z-Ditches Cooling Water Group Work Plan	12/31/1999	12/14/1999 (A)	X						
3		M-15-00A	Complete all remaining 100 Area Operable Unit pre-ROD site investigations under approved Work Plan schedules (100-KR-2 100-KR-3, 100-FR-2, 100-IU-2, and 100-IU-6).	12/31/1999	12/21/1999 (A)	X						
4		M-15-00B	Complete all 300 Area Operable Unit pre-ROD site investigations under approved Work Plan schedules.	12/31/1999	11/22/1999 (A)	X						
5		M-16-92B	ERDF cells 3 & 4 ready to accept remediation waste.	12/31/1999	12/09/1999 (A)	X						
6	Jan-00	C-10-07	The Hanford Site Waste Management Units Report	01/31/2000	01/25/2000 (A)	(Compliance Milestone not included in total count)						
7	Feb-00	M-24-00K	FY 1999 Install RCRA Groundwater Monitoring wells at the rate of up to 50 in Calendar Year (CY) if Required.	02/29/2000	02/17/2000 (A)	X						
8		M-24-41	Install three (3) additional RCRA wells for the SST WMA S-SX.	02/29/2000	02/17/2000 (A)	X						
9		M-24-42	Install one (1) replacement well for the 216-S-10 Pond.	02/29/2000	02/17/2000 (A)	X						
10		M-24-43	Install one (1) Additional RCRA well for the SST WMA TX-TY.	02/29/2000	02/17/2000 (A)	X						
11		M-24-44	Install one (1) RCRA well for the 216-B-3 Pond (This is an extension of a CERCLA vadose borehole).	02/29/2000	02/17/2000 (A)	X						
12		M-24-45	Install two (2) additional RCRA wells for the SST WMA B-BX-BY.	02/29/2000	02/17/2000 (A)	X						
13	Mar-00	M-16-08B	Complete remediation and backfill of 19 waste sites in the 100-BC-1 and 100-BC-2 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.	03/31/2000	03/24/2000 (F)			X				
14	Jun-00	M-93-05	Issue B Reactor Phase II Feasibility Study Engineering Design Report for public comment.	06/30/2000	06/30/2000 (F)				X			
15	Aug-00	M-13-23	Submit 200-TW-1 Work Plan.	08/31/2000	08/31/2000 (F)				X			
16		M-13-24	Submit 200-TW-2 Work Plan.	08/31/2000	08/31/2000 (F)				X			
17	Sep-00	M-16-13A	Initiate Remedial Action in the 100-FR-1 Operable Unit	09/29/2000	09/29/2000 (F)				X			
TOTAL FY 2000 TPA Milestones				16	5 (F); 11 (A)	11	0	1	4	0	0	0

Approved TPA Change Package M-16-99-02 (Rev 1) for Milestones M-16-26C removed this milestones from FY 2000.

Approved TPA Change Package M-16-00-01 for Milestones M-16-07B removed this milestones from FY 2000.

Approved Change Control

M-16-99-02
**Remedial Design/
Remedial Action**
Approved 02/08/00

This change request modifies Interim Milestones M-16-10A, M-16-13A, M-16-13B and M-16-26C

M-16-10A (8/01/03) Initiate Remedial Action in 100-KR-1 Operable Unit.

M-16-13A (9/29/00) Initiate Remedial Action in 100-FR-1 Operable Unit.

M-16-13B (10/29/04) Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 and 100-FR-2 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.

M-16-26C (5/30/01) Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.

M-16-00-01
**Remedial Design/
Remedial Action**
Approved 02/08/00

This change request modifies Interim Milestones M-16-07B

M-16-07B (7/31/01) Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.

STATUS BY PROJECT

REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

TPA First Quarter Review

B/C Area Remediation

- Revegetation of the five waste sites was completed in early December. This activity marks the completion of remedial actions for the high priority, near-river waste sites (Group 1) at the 100 B/C Area.
- Backfilling of the 12 small waste sites (Group 3) was completed on February 25. This backfill completion will satisfy *Tri-Party Agreement* Milestone M-16-08B.
- A total of 621,174 metric tons (684,731 tons) of soil were removed and disposed during the 100 B/C excavation period, which was started in July 1996 and completed in May 1999.

D Area Remediation

- Closeout/verification sampling of completed excavation areas continued at the D Area remediation site.
- Excavation activities for the Group 3 small waste sites continue to progress, including plumes found during planned remediation activities.
- Due to discovery of additional plumes the completion date for *Tri-Party Agreement* Milestone M-16-07B (Complete Remediation and Backfill of 22 Sites at DR-100) was extended to July 31, 2001.

F Area Remediation

- Remediation design activities were initiated in October at the 100 F Area. The remedial action design package has been completed.
- Civil surveying for topographic and location map development was completed in December. Field trailer setup activities have been completed.

- Air monitors were installed and put into operation. (Air permit requires four weeks of data prior to starting remedial action.)
- FCC license for microwave frequencies was issued for phones and computers.
- Preliminary results of the 126-F-1 Ash Pit waste minimization project, which utilized a gamma probe technology, indicate that the south portion of the site may not contain contaminated soil. This technology demonstration may result in reduced project costs.
- Due to discovery of additional plumes, in 100 H Area, the completion date for *Tri-Party Agreement* Milestone M-16-13A (Initial Remedial Action in the 100-FR-1 Operable Unit) was extended to September 29, 2000.



H Area Remediation

- 100 H Area remediation activities made steady progress considering several unplanned obstacles encountered. Some of those being:
 - ▢ Finding PCBs in a sludge burial site. A waste profile required revision.
 - ▢ Continuing remediation at two septic drain field waste sites that were located within bald eagle nesting boundaries. Remediation activities were restricted to specific dates and hours that work could be conducted.
 - ▢ Higher than expected contamination levels encountered during H area retention basin excavation. Excavation activities were temporarily moved to another waste site until radiological work permit and control boundaries were revised.
 - ▢ Continued discovery of additional plumes within 100 H Area (estimated additional 40,000 metric tons [44,000 tons] identified through February). Due to the discovery of additional plumes at 100-HR, the completion date for *Tri-Party Agreement* Milestone M-16-26C (Complete Remediation and Backfill of 10 Liquid Waste Sites and Pipelines in the 100-HR-1 Operable Unit) was extended to May 30, 2001.
 - ▢ Discovery of elevated arsenic levels. Research indicates large quantities of lead arsenate were used as a pesticide on pre-Hanford agricultural land. An agreement was reached with regulators to establish 20 mg/kg (consistent with WAC) as the cleanup level throughout the 100 Area.
- Asbestos abatement, cutting, and removal continued with the 1.5-meter (60-inch) diameter carbon steel piping and 38-centimeter (15-inch) or less diameter cast iron piping. Over 353 meters (1,158 feet) of pipe were removed in February.

100 Area Records of Decision

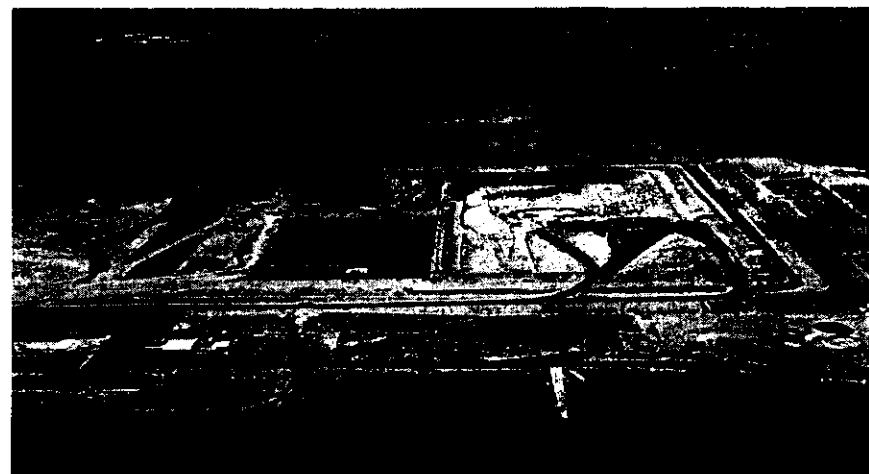
- The draft *100 Area Burial Grounds Focused Feasibility Study (FFS)* and *Proposed Plan* were transmitted to the regulators in December (completing *Tri-Party Agreement* Milestone M-15-00A ahead of schedule).
- Preliminary drawings were developed for demolition of the river outfall structures (*100 Area Remaining Sites ROD*). Discussions on extent of outfall removal will be scheduled with the regulators.
- The 100-NR-1 Treatment Storage Disposal (TSD) ROD authorizing crib remediation was signed on January 19.
- The 116-N-3 crib ASA/FHC was approved on February 24.
- The RFP for the 100-NR-1 crib remediation was issued in December. Six bids were received. Subcontract award is scheduled for early April.

300 Area Remediation

- Additional plumes of contaminated soil were discovered in the South Process Pond site. An estimated additional 30,000 metric tons (33,000 tons) of waste will be excavated and shipped to ERDF for disposal.
- Remediation activities were initiated at Landfill 1B in December and at Landfill 1A in January.
- The *Draft A 300-FF-2 Operable Unit FFS* and *Proposed Plan* were transmitted to regulators in November (completing *Tri-Party Agreement* Milestones M-15-23B and M-15-00B ahead of schedule).

ERDF Operations

- In December, the regulators approved Revision 2 of the ERDF *Leachate Management Plan*, which allowed for the first production transfer of leachate to the Effluent Treatment Facility (ETF) via the new pipeline link. The pipeline will add efficiency, safety, plus cost and schedule savings to truck transportation.
- Through February, 245,142 metric tons (270,224 tons) have been received in FY00. To date, 1,972,118 metric tons (2,173,899 tons) of material have been received and placed in the disposal facility.
- A Memo of Understanding was signed in December with FHI for the packaging, treatment, transport, and disposal of K Basin waste to ERDF.
- A Letter of Instruction and work order was signed in December with PNNL for the transport and disposal of the wastes from the 331-A building demolition in the 300 Area.

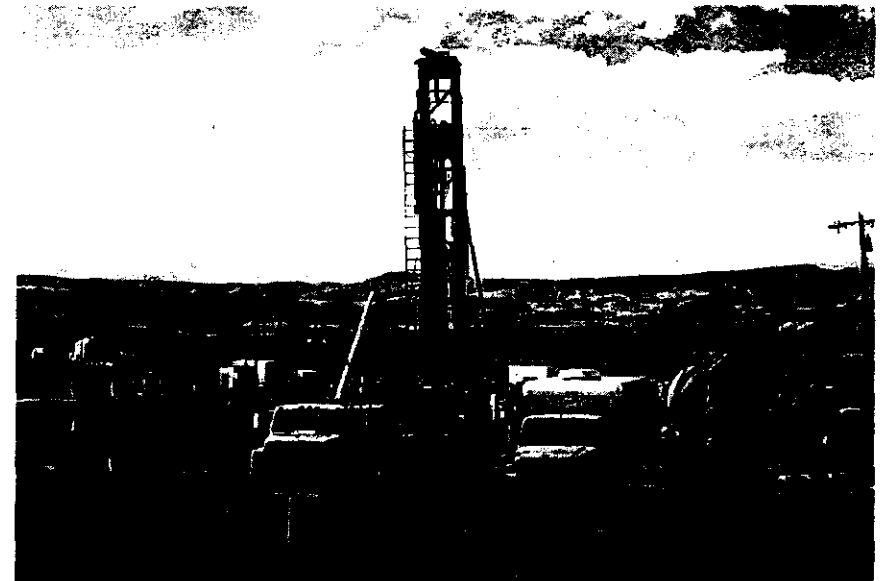


ERDF Expansion

In December, the regulators completed their review of the *Construction Quality Assurance Reports* associated with the ERDF Cells #3 and #4 expansion. The regulators agreed the construction met requirements, and approved the additional cells for operation completing *Tri-Party Agreement* Milestone M-16-92B ahead of schedule. The new cells will be dedicated early in 2000, and will begin receiving waste in the spring.

Groundwater/Vadose Zone Integration Project

- Several workshops and Project progress meetings have been held. Key participants at these sessions include the Oregon Office of Energy, CRCIA team, HAB, regulators, and the general public.
- An Expert Panel meeting was held on January 26-28 to review the Integration Project's progress since the panel last met in September 1999. Topics discussed included the SAC, vadose zone and groundwater modeling, S&T, and subsurface investigations. Special sessions were open to the public, and a formal public comment period was also included.
- An issues management system was established to track and disposition GW/VZ issues. Through partnering with PNNL, software and hardware were transferred from PNNL to the GW/VZ Integration Project to support the system. The software and hardware transfer will provide enhanced capabilities and reduce the cost of the task.
- The *Assessment Design Document for the SAC, Rev. 0* is in development. The draft software requirement specification section has been completed. The test plan is being developed.
- S&T Risk workshops were held with the goal of defining S&T Roadmap needs and issues. A collection of noncontaminated soil samples were taken from a RCRA borehole near the 200 Area S-SX Tank Farms to establish as a baseline for studies conducted within field investigations.



Groundwater Management

- The 100-HR-3 ROD Amendment for the In Situ Redox Manipulation (ISRM) technology was approved by the regulators in late October. The ISRM well drilling contract for 16 wells was awarded in January, and drilling commenced in February in the 100 D Area.
- Routine well drilling, maintenance and groundwater monitoring continued. Well sampling is behind schedule due to labor contract issues; increased staff and a recovery schedule has been implemented. Eight new RCRA wells were installed satisfying calendar year 1999 *Tri-Party Agreement* Milestones M-24-00K, M-24-41, M-24-42, M-24-43, M-24-44, M-24-45. Installation of the wells was completed in mid-February.

Groundwater Management Continued

- A prioritized list for calendar year 2000 RCRA well installation was developed in support of the *Tri-Party Agreement* milestone M-24-OOL. Discussion with the regulators is in progress (see Issues).
- All pump and treat systems were placed on standby in late December to ensure no freezing problems would occur from potential Y2K issues. All systems were restarted in January without incident.
- All groundwater pump and treat systems operated above the planned 90% availability levels through February. Since system inception, the five pump and treat systems have processed over 3.7 billion liters of groundwater, removing 3,826 kilograms of carbon tetrachloride, 158 kilograms of chromium, and 0.777 curies of strontium. Approximately 398 million liters of groundwater have been processed in FY00, removing approximately 422 kilograms of carbon tetrachloride, 25 kilograms of chromium, and 0.071 curies of strontium.

100-HR-3. Approximately 21.1 million liters of groundwater were processed in February, removing approximately 1.7 kilograms of chromium. 100.8 million liters have been processed in FY00, with 10.5 kilograms of chromium removed. Approximately 752.4 million liters of groundwater have been processed from inception to date, with 74.7 kilograms of chromium removed.

100-KR-4 Approximately 22.8 million liters of groundwater were processed in February, removing approximately 2.7 kilograms of chromium. 120.9 million liters have been processed in FY00, with 14.9 kilograms of chromium removed. Approximately 646.3 million liters of groundwater have been processed from inception to date, with 83.3 kilograms of chromium removed.

100-NR-2 Approximately 8.3 million liters of groundwater were processed in February, removing approximately 0.016 curies of strontium. 40.5 million liters have been processed in FY00, with 0.071 curies of strontium removed. Approximately 463.4 million liters have been processed from inception to date, with 0.777 curies of strontium removed.

200-UP-1 Approximately 7.3 million liters of groundwater were processed in February, removing approximately 30.8 million liters in FY00. From inception to date, approximately 386.5 million liters have been transported to the Effluent Treatment Facility (ETF) for processing. 343.0 million liters were previously processed prior to utilizing the ETF (see Issues).

200-ZP-1 Approximately 25.4 million liters of groundwater were processed during February, removing 109 kilograms of carbon tetrachloride. 105.0 million liters have been processed in FY00, with 422.4 kilograms of carbon tetrachloride removed. From inception to date, approximately 1.1 billion liters have been processed, with 3,826 kilograms of carbon tetrachloride removed.

Vapor Extraction

- The 200-ZP-2 soil vapor extraction system was placed off-line for FY00 in order to monitor and evaluate any rebounding of contaminant to static conditions. The data will be used to evaluate the effectiveness of remediation on contaminants within the vadose zone. The passive vapor extraction system (installed in selected vadose zone wells) is performing as designed. Monthly sampling has been implemented (see Issues).

200 Area Assessment

- A *Tri-Party Agreement* change package was approved to initiate work in FY00 on the 200-TW-1 Scavenged Waste Group and 200-TW-2 Tank Waste Group. The scope will include the coordination and integration of characterization activities in and around the B and T Tank Farms. This integrated approach will be conducted by the ER 200 Area Assessments Project, GW/VZ S&T, along with support from the River Protection Project.
- FY00 field characterization activities for the 200-CW-1 Gable Mountain / B Pond Cooling Water Operable Unit were completed in December, including 12 test pits and 1 borehole.
- The Draft A 200-CW-5 RI/FS *Work Plan* for the 200-CW-5 U Pond/Z Ditches Cooling Water Waste Group was issued on December 14 for regulator review. This transmittal satisfied *Tri-Party Agreement* Milestone M-13-22, which was due on December 31.
- The 216-S Pond borehole drilling was completed in December. This work was integrated with the RCRA Groundwater Monitoring Program for efficiency savings.
- No comments were received from the public review of the Draft B RI/FS *Work Plan* for the 200-CS-1 Chemical Sewer Waste Group. A briefing of the work plan was presented to the HAB-ER committee in January.



DECOMMISSIONING PROJECTS

TPA First Quarter Review

F and DR Reactors ISS

- Demolition is complete at F Reactor except for the fuel storage basin.
- Recommendations were presented to regulators in January for accelerating removal of the F Reactor Fuel Storage Basin clean fill material from FY03. No major concerns or issues with the recommendations were identified. A baseline change request is being processed for incorporating this work into the FY00 scope.
- Subcontract was awarded in February for the F & DR Reactor safe storage enclosure pourback subcontract.
- Development of the EE/CA documents is proceeding for the D and H Reactors. The ASA document is also being prepared for the D Reactor.
- The *Project Closeout Report* for the 1999 demolition of the ~~119-DR Exhaust Air Filter Sampling Building~~, 116-D, and 116-DR exhaust stacks were completed in December. Submittal of the report constitutes formal completion of the demolition project.

233-S Plutonium Concentration Facility Demolition

- Overall, 233-S demolition is proceeding well, but the need to re-baseline the project occurred when loose plutonium was discovered on the process hood floor and delayed progress. Various safety documentation was prepared and process hood work is again underway.
- The process hood *Safety Evaluation Report* (SER) was approved in January.
- Mockup training was completed for the process hood panel removal and surveys in February.
- Dismantling and decontamination of the loadout hood workscope was completed in January. The loadout hood room interior was painted and radiological surveys were conducted.

- Dismantlement of the roof supply duct was completed from inside the 233-S facility in January.
- Installation of a separation barrier for the localized ventilation was completed.
- The glovebag for the first floor viewing room was installed in December.
- As of January, there were no clothing contamination incidents and one skin contamination incident. This safety record is particularly noteworthy when considering the high radiation levels of the facility and work locations, and that an average of over 170 personnel entries are made into contaminated areas each month.

Balance of Decommissioning Projects.

- The draft EE/CA for the 224-B Plutonium Concentration Facility decommissioning project was submitted to the regulators for review and comments in February.
- The contract was awarded for the development of the *B Reactor Museum Phase II Feasibility Study* in February. A meeting was held with the regulators on February 24 to discuss the upcoming *Tri-Party Agreement* Milestone (June 30) requirements and path forward for the B Reactor Museum.

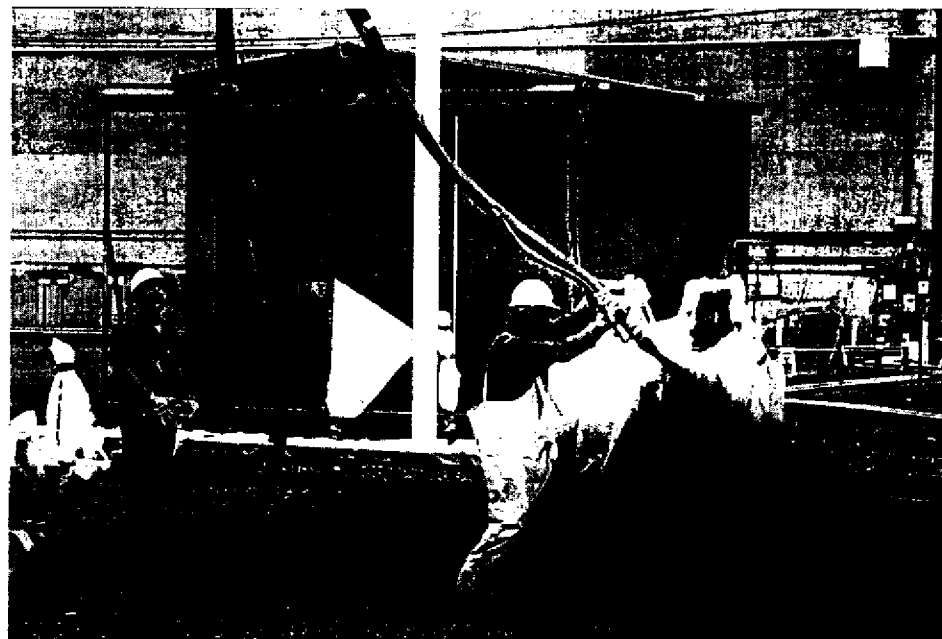


S&M Activities

- The structural inspection report was issued for the Plutonium Uranium Extraction (PUREX) facility roof. Inspection results indicate the roof is deteriorating and will require upgrades next year.
- The draft design package was completed and being reviewed for the Water Treatment Plant replacement system at the N Reactor site. The subcontractor has started the deactivation of the existing water plant and installation of the new piping system.
- The work package and task instruction development continued for the 100 Area septic tank final disposition workscope.
- The work package was completed for the removal of legacy waste from the H Reactor Area.
- The safety evaluation for planned stabilization activities in the Reduction Oxidation (REDOX) Facility plutonium loadout hood was completed.
- The bare ground herbicide applications have been completed.
- Began mobilization of equipment for the passive vents source elimination at RARA sites work.

Canyon Disposition Initiative (CDI)

- The crane hook recertification was completed for the U Plant (221-U Building) canyon crane.
- Preparation progressed for access to the U Plant cells 23 through 31. A total of 38 cells are planned to be accessed.
- Nondestructive evaluation of the crane drum in the canyon was completed. A safety enhancement was identified from the evaluation and was implemented.



KE/KW

- The *Waste Management Plan* was completed for the removal of legacy waste from KE and KW Reactors. Legacy waste removal from KE is approximately 60% complete.
- The H, D, KE, and KW Reactors' annual surveillance and housekeeping activities were completed.
- Completed sample collection for KE/KW Acid Tanks.

PROGRAM MANAGEMENT & SUPPORT – ERC TPA First Quarter Review

Compliance, Quality, Safety & Health

- **Compliance and Quality.** The ER Project ISMS Verification Kick-Off meeting was held on March 2, 2000, followed by a site tour on March 3, 2000. Phase I Verification interviews were completed on March 8th and Phase II Verification interviews were completed on March 16th. The DOE Verification Team is currently completing their report. A final debriefing will be presented to BHI Senior Management on Thursday, March 23.
- **Safety and Health.** The ERC is participating in the preparation of the Hanford Site Chronic Beryllium Disease Prevention Program that is sponsored by the DOE. A revision is being made to the ERC beryllium procedures to comply with federal regulations.

Project Technical Support

- **Design Engineering.** *The Opportunity Assessment Report for Waste Minimization/Pollution Prevention-FY2000* was issued. Several opportunities were identified and recommended for implementation in support of ER Project Waste minimization efforts.
- **Technology Applications.** A listing was forwarded to RL identifying seven ERC planned technology deployments for FY00. Of the seven deployments, five are committed and two are planned. Two technologies – the Small Diameter Geophysical Logging System and Liquid-Level Detection Technology (ultrasonic) – have already been deployed.

Program and Project Support

- **Economic Development.** In January, the ERC had exceeded FY00 Small Business socioeconomic contractual goals.
- **Property Management.** The ERC was recognized in the November *Congressional News Briefing Sheet* for the successful rock crusher transfer from the Hanford Site to the Ohio Mound Site. This waste minimization effort resulted in a savings to the Ohio Field Office of \$750K, by eliminating the need to purchase the equipment. In utilizing this crusher, DOE estimates a savings between \$4 to \$12M over the next three years.

Planning and Controls

- **Baseline.** The FY00 Baseline Update and Reconciliation change proposal was completed and was formally approved by Headquarters in January. The revised baseline identifies a \$1.77B increase to overall Hanford Site restoration costs. These costs are primarily due to increases in 300 Area transuranic waste quantity and escalation increases. The lifecycle ER schedule was also extended from FY44 to FY46 to accommodate site stewardship planning assumptions.
- The IPL development for the FY02 budget submittal was completed in February as planned.

ISSUES

Current ER Project Issues TPA First Quarter Review

REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

Issue: 300-FF-2: Approval of the ROD by 9/30/00. Decisions potentially impacting approval: Preliminary remediation goals are being questioned by Ecology.

Strategy/Status: Work is ongoing to prepare decision documents for the public review period scheduled for late May 2000. The Department of Ecology has issues with the Preliminary Remediation Goals (PRG's) being developed for 300-FF-2. EPA, who supports the PRG's, will be addressing issues with Ecology with support from DOE-RL. DOE supports the removal, treatment and disposal alternatives and will document this in a letter to EPA.

Issue: M-16-26B – Complete Remediation and Backfill of 51 Waste Sites at B/C, DR, and HR by February 28, 2001 will be missed due to lack of funding for 100 Area B/C pipelines.

Strategy/Status: A resolution with the regulators is required to be negotiated. The path forward is to submit a Tri Party Agreement Change Package to the regulators for review and evaluate out year funding and priorities.

Issue: Arsenic Strategy for 100 Area Remediation: Variance sampling was completed in November 1999 for 1607-H2 and 1607-H4 septic systems. Arsenic data in the overburden and shallow zone soils exceeded Remedial Action Goals (RAGs), (Hanford Background). The average ranged from 8-11 mg/kg, maximum-30 mg/kg; Hanford Background 6.5 mg/kg. Records indicate that no arsenic was used in processes at the 100-H area.

Historical research indicates lead arsenate was used as a pesticide in pre-Hanford agricultural lands (predominately orchards). Application rates were as high as 250 lb. per acres per year. Lead arsenate pesticide was used from the early 1900's to 1942. By 1942, Hanford agricultural land is estimated at 13,000 acres dry land farming and 18,000 acres in irrigation districts.

Strategy/Status: The state background value of 20 ppm (6 ppm was the Hanford background) will be utilized as the cleanup goal for the 100-H and F Operable Units. Ecology and EPA have agreed to this new clean up level. The Remedial Design Report and Sampling Analysis Plan (currently being revised) will be revised to reflect this new cleanup value for arsenic. A BCP will be processed in April to reflect the required cost and schedule impacts.

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

Issue: Monitoring Wells: A high tritium value was identified in a monitoring well for the 618-11 Burial Ground.

Strategy/Status: The tritium investigation is divided into two phases. Phase I is the initial sampling of existing wells in the area for tritium and other constituents of interest. Phase II is the further characterization of the tritium in the groundwater near the 618-11 Burial Ground.

Current ER Project Issues TPA First Quarter Review

Phase I: The data evaluation of the Phase I sampling event is currently underway. A letter report that will assist in the Phase II plan is currently being prepared. A briefing on the critique of reporting and the phase I results was presented the HAB ER committee meeting on 3/14. This presentation was well received and questions centered around the "trip wires" for reporting, understanding the hydrogeology near the waste site, and blending phase I and II results with remediation plans.

Phase II: The DQO for Phase II is underway as well.

Issue: 200-UP-1: Regulatory agencies desire continued operation of the 200-UP-1 pump and treat system (not included in DWP).

Strategy/Status: BHI received direction from the Contracting Officer Representative (COR) to extend operations until the end of FY00. The Groundwater Project will also include operations of UP-1 per FY01-FY03 DWP. A trend has been signed by the COR and a BCP prepared.

Issue: 200-ZP-2: Regulatory agencies desire continued operation of the 200-ZP-2 vapor extraction unit (not included in DWP).

Strategy/Status: Project personnel met with EPA (Doug Sherwood), to discuss the need to restart of ZP-2 pending completion of the cost estimate to perform the Portioning Interwell Tracer Test (PITT) test. Decision to be made to either restart ZP-2 or initiate the PITT test by June 1, 2000. PITT test estimate will be completed by the end of March, with management review to be completed by mid April. A BCP for ZP-2 restart has also been completed.

Issue: 200 Area RI/FS: Approximately 700 soil contaminated sites (200 Area) grouped into 23 process-based operable units are to be characterized by year 2008 and remediated by 2018. Currently no out-year funding exists beginning in FY01. Long-term, DOE-RL must decide its budgetary position toward assessment and cleanup of the 200 Area liquid sites. The Regulator position is to submit TPA change packages for each operable unit work plan for enforceability in completing the RI through ROD based on existing TPA milestones.

Strategy/Status: DOE has prepared a TPA change package for the 200-CW-1 operable unit containing RI/FS milestones for FY00 only. In addition, DOE is currently working on a long-term strategy for prioritizing the 200 Area assessment and remediation activities in conjunction with other site cleanup decisions. BHI has developed a proposal for inclusion of all interim milestones with "TBD" dates for out year milestones.

Issue: Off-Site Resin Regeneration on hold. (U.S. Filter Violations – 7 total.)

Status: Vendor recently inspected, violations identified, and Enforcement Conference completed on 3/15/00. EPA CERCLA off-site authorization to use facility is in question pending resolution of issues.

Issue: Well Installation: Provide funding for CY-2000 GW Well Installation.

Status: Ecology and DOE have not agreed on the number and placement of wells. Item in dispute. BCP to be submitted once scope is defined. Note: this is a TPA milestone that needs to be completed by 12/31/00.

Current ER Project Issues TPA First Quarter Review

Issue: Waste Handling: On February 24, 2000, Bechtel Hanford, Inc. (BHI) determined that Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) non-radioactive miscellaneous solid waste (MSW) had been inadvertently transported off the Hanford Site and disposed in landfills.

This MSW was generated during groundwater well sampling, groundwater well maintenance, groundwater well drilling and groundwater level measurements. The MSW consists of items such as wipes, surgical gloves, 5 micron filters, stickers, and tape. Some of this MSW is deposited in site dumpsters. The dumpsters are then emptied by another site contractor and transported to a local offsite landfill. This disposal practice has been in effect for several years.

At issue is that some of the MSW may have contacted 200 West Area groundwater that is managed as F001 (carbon tetrachloride) listed waste and 100-N Area groundwater which is managed as F003 (may contain methanol) listed waste. By definition any material that comes in contact with listed waste can be also be considered listed.

The groundwater in the 200 West Area contains low levels of carbon tetrachloride that is a volatile organic. It is expected that little or no carbon tetrachloride would be present in the MSW when it was shipped offsite. Methanol has not been detected in 100 N Area groundwater; therefore, it is expected that methanol would not be present in the MSW.

The landfills, other contractors and subcontractors have been notified. The EPA and the WA Dept of Ecology were briefed on Thursday, February 24, 2000.

Status: The offsite shipment of materials potentially containing listed waste continues to be tracked. Corrective actions were taken in mid February to eliminate the possibility for releasing materials containing listed waste from the groundwater services operations. An occurrence report was prepared and the appropriate agencies and vendors were notified. Worst case samples were taken to determine if the materials shipped offsite contained any detachable listed waste. Initial results indicate that the listed waste exists at very low levels immediately after the sampling but was not detachable within 24 hours. Additional results are expected back this week. After the complete results are received a summary report will be prepared and provided to all parties involved.

Issue: Waste Control Plan: One hundred and forty-five drums of drilling cuttings, slurries, and miscellaneous sampling wastes are currently being stored in a central location in the 200 West Area (Biosite). The majority of the wastes were recently generated (November, 1999 to February, 2000) by well drilling activities associated with the eight RCRA wells drilled under the M-24 TPA Milestone with a minor amount from the 618-11 tritium investigation and 100 Area investigations. The waste was managed under a Waste Control Plan developed by BHI and approved by Ecology, Department of Energy – Richland (DOE-RL) and Bechtel Hanford Incorporated (BHI) in September, 1999. Ecology was considered the regulatory lead for such wastes and was the only regulatory agency to approve the plan. The site where the waste is stored is in an EPA-lead operable unit (200-ZP-02).

Current ER Project Issues TPA First Quarter Review

On February 14, 2000, Ecology issued a letter stating that they intend to rescind the September, 1999 Waste Control Plan effective 30 days from receipt of the letter, that is March 16, 2000. The letter stated that Ecology found the plan to be excessively broad and that Ecology and EPA would entertain development of operable unit specific waste control plans.

During a meeting with EPA and Ecology on February 24, 2000, EPA voiced concerns relative to the September, 1999 waste control plan only being signed by Ecology, the statement that Ecology was the lead regulator for this waste, and the storage of the waste in a EPA lead operable unit.

Status: EPA and Ecology provided a letter which allows the continued storage of waste at the Biosite in 200 West. ER continues to work with the regulators to determine the final disposition of the Biosite waste and storage and disposition of newly generated waste.

SURVEILLANCE/MAINTENANCE

Issue: B-Plant/Purex Roof Funding: Ensure funding is provided by transition project per MOUs, to support roof repair commitments for B-Plant and Purex. Facilities have transitioned to ER with the commitment to fund these repairs from the releasing project.

Status: Funding for roof repairs have not been included within the current above the line Integrated Priority List (IPL) targets.

Issue: Stack Ventilation: Problems with stack ventilation, retired filters, and other issues documented in letter, M.C. Hughes to R. Gerton, 9/28/99, "Remaining Issues for the Transition of the B Plant Facility from EM-60 to EM-40".

Status: Facility transferred to ERC 9/30/99. MOA with open items assigned cost/schedule responsibility received 9/30/99. Original MOA schedule not met. Test ran and in less than 24 hours, new cracks appeared. Filter changeout work near completion. New estimate for ventilation repair being developed. Analysis group review is currently forecasted for 3/20/00. Regulator has been advised that the "New Date" for restoration of ventilation is now 4/15/00.

Issue: CDI Funding: EM-30 (Office of Waste Management) has indicated that funding (\$400K) will not be available for the CDI in FY00. EM-50 (Office of S&T) additional funding (\$700K) is also in question.

Status: The \$400K that was planned from EM-30 has been BCP'd by EM-40 to manage this shortfall. The remaining \$350K from EM-50 was in the March FIN Plan and should be available by the end of March.

Current ER Project Issues TPA First Quarter Review

DECONTAMINATION AND DECOMMISSIONING

Issue: FY01-ISS Funding: Partial funding in FY01, and no funding in FY02 will result in program suspension and loss of potential cost savings.

Strategy/Status: Need strategy to maintain critical resources and visible progress; in past two years accelerated progress has been achieved through supplemental congressional funding.

Issue: D&H Reactor Impacts of TPA milestones: The acceleration of the Reactor ISS is no longer consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestones for DR, D, and H at the same level of detail as F and C reactors.

Strategy/Status: Initial discussions with the regulators have started which may lead to formal negotiations in the near future.

PROGRAM MANAGEMENT AND SUPPORT

Issue: FY01 and FY02 ER funding (target) levels are below minimum compliance requirements. Submitted FY01 president's budget assumes ER funding target at \$143M. While this funding level maintains a number of significant activities supporting site cleanup goals, it is far short of maintaining compliance with TPA/other Regulatory commitments for the near term and especially beyond FY01. The recently directed funding target for FY02, at \$140.1M, is again significantly short of supporting minimum compliance requirements and for FY02 and beyond.

Strategy/Status: Maintain current TPA/Regulatory commitments in FY00; develop impacts associated with directed funding targets for FY01 and FY02, and support DOE budget submittals and presentations, including discussions with Regulators on projected future shortfalls and prioritization of allocated funding.

TECHNOLOGY INSERTION POINTS (TIPs)

TPA First Quarter Review

TIP Number	TIP Title	Date Issued	TIP Milestone	Description	PBS	Project Area
TIP-0001 (Rev. 2)	Burial Ground Remediation (100 Area)	FY99	FY01	Currently, 45 burial grounds are scheduled for excavation. The final design for the excavations will specify technologies for excavation, characterization, segregation, and treatment, where necessary.	ER-01	100 Area Remedial Action
TIP-0002 (Rev. 2)	Soils and Burial Ground Remediation (200 Area)	FY99	FY01	Planning is underway for the 200 Area soils and burial grounds. The assessment of potential remedial action alternatives will consider technologies for excavation, capping, characterization, segregation, and treatment where necessary.	ER-02	200 Area ER Remedial Action
TIP-0003 (Rev. 2)	300-FF-2 Remediation (300 Area)	FY99	FY06	Planning is underway for the 300-FF-2 Operable Unit soils and burial grounds. The assessment of potential remedial action alternatives will consider technologies for excavation, capping, characterization, segregation, and treatment where necessary.	ER-08	Groundwater Management Project
TIP-0004 (Rev. 2)	Strontium Remediation (100 Area Groundwater)	FY99	FY08	Current remedial action for the strontium plume is pump-and-treat to contain the plume such that strontium does not migrate into the Columbia River. Enhanced treatment through application of in situ remediation techniques (or improved pump-and-treat approaches) are being considered. The current approach is expensive and may not be cost effective as a permanent, final remediation strategy for the strontium plume.	ER-08	Groundwater Management Project
TIP-0005 (Rev. 2)	Chromium Remediation (100 Area Groundwater)	FY99	FY03	The current Interim Response Measure (IRM) for the chromium plumes is pump-and-treat, to contain the plume such that chromium does not migrate into the Columbia River. Enhanced treatment through application of in situ remediation techniques, or improved pump-and-treat approaches, are being considered. The current approach is expensive and may not be as cost effective as a permanent, final strategy for all the chromium plumes.	ER-08	Groundwater Management Project
TIP-0006 (Rev. 2)	Carbon Tetrachloride Remediation (200 Area Groundwater)	FY99	FY03	The current Interim Response Measure (IRM) for the carbon tetrachloride plume is pump-and-treat, to contain the plume within the 2000-to-3000 ug/L contour boundaries. The current approach would need to be expanded significantly and continued for several years, to treat the entire plume. Enhanced treatment through application of in situ remediation techniques, or improved pump-and-treat approaches, are being considered as ways to speed remediation and reduce costs.	ER-08	Groundwater Management Project

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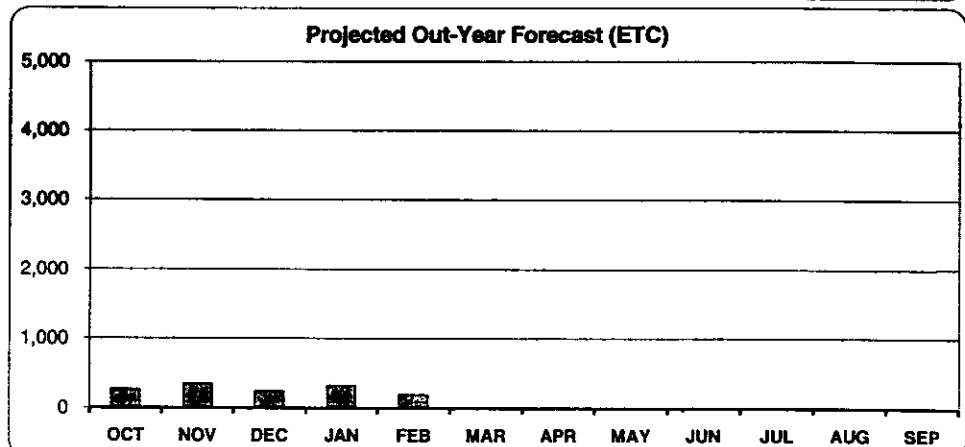
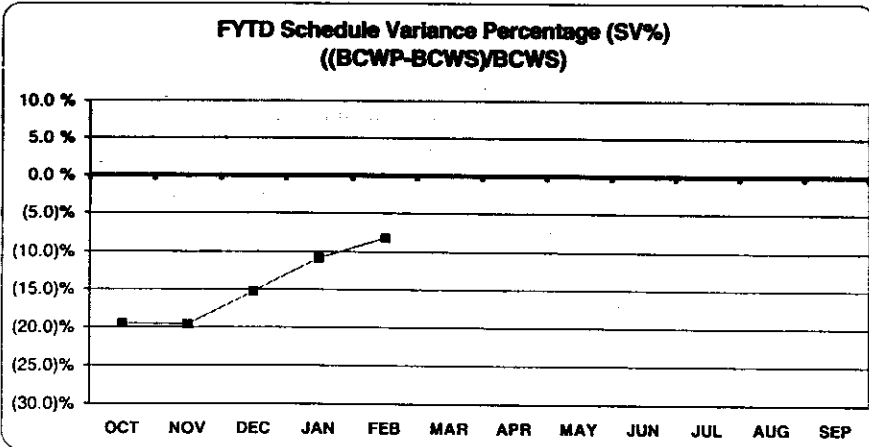
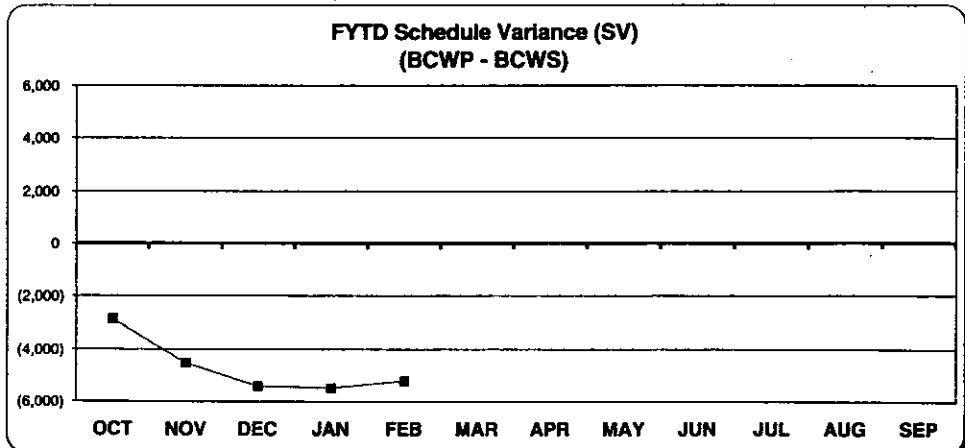
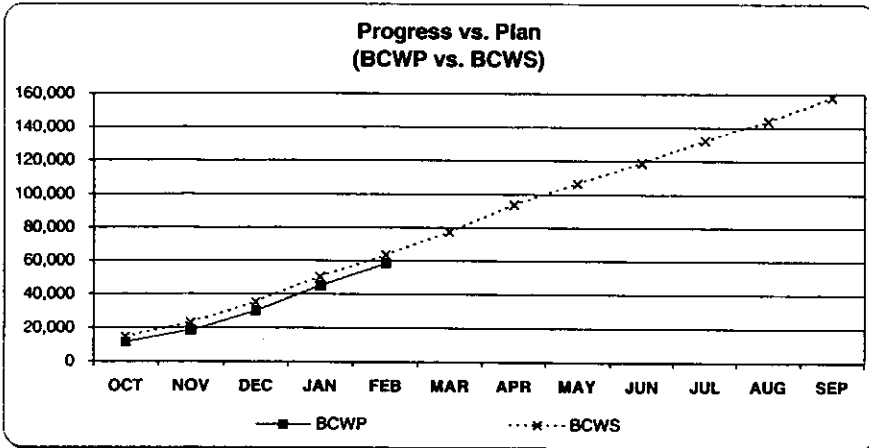
TIP Number	TIP Title	Date Issued	TIP Milestone	Description	PBS	Project Area
TIP-0007 (Rev. 2)	Surface Barrier for CDI	08/04/99	FY06	A surface barrier design is needed for the Canyon Disposition Initiative (CDI) Project. The CDI Project will determine the end-state for the 221-U Facility. Several potential end-state alternatives will require a surface barrier. The surface barrier must protect against water infiltration, wind and water erosion, and plant, animal, and inadvertent human intrusion. If an entombment alternative is selected the surface barrier design will be required to provide for steep slopes (e.g., 1:3).	ER-05	Environ. Restoration Surveillance and Maintenance
TIP-0008 (Rev. 1)	Asbestos Abatement For 105-KE/KW/N	08/04/99	FY04	An improved method is needed for stripping asbestos from circular piping and rectangular ductwork ranging in sizes from 2" to 48".	ER-06	Environ. Restoration Decontamin. And Decommission
TIP-0009 (Rev. 1)	Expert System	08/04/99	FY07	An expert system is needed to support characterization of reactors for interim safe storage. The purpose of the system will be to compile and correlate the voluminous information from the characterization of the previous reactors. This information will form the basis for planning the minimal characterization required for future reactors. Functional requirements of the system include statistically assessing large data arrays from different perspectives in order to evaluate consistency with respect to various compliance criteria. By carefully assessing existing characterization data (radiation, chemical, metals, and physical) from similar areas, correlations may be discovered that will reduce or eliminate the need for costly/time-consuming sampling and analysis at future reactors.	ER-06	Environ. Restoration Decontamin. And Decommission
TIP-0010 (Rev. 1)	Heavy Concrete Demolition for 105-D/H	08/04/99	FY04	An improved technology is needed for the demolition of dense, reinforced, thick (i.e., 2 to 3 feet thick) concrete.	ER-06	Environ. Restoration Decontamin. And Decommission

COST/SCHEDULE STATUS

PROJECT OVERVIEW

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

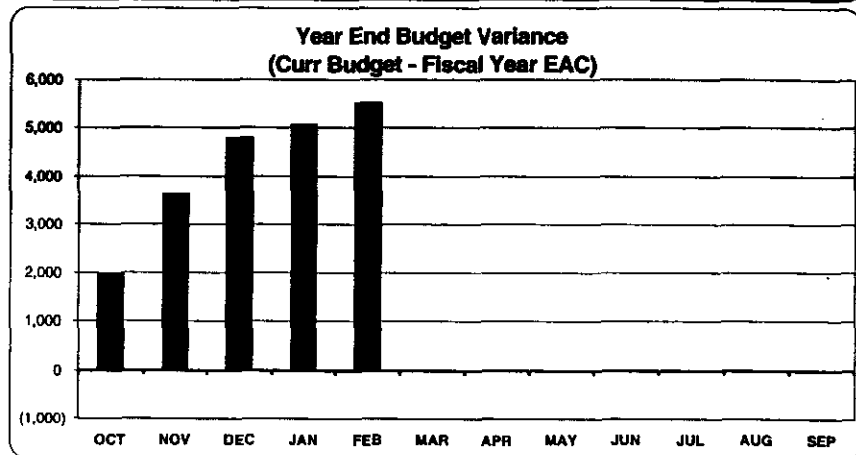
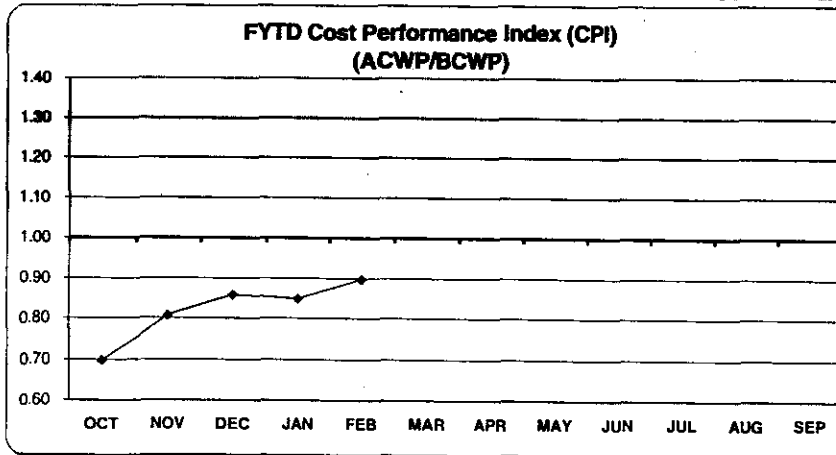
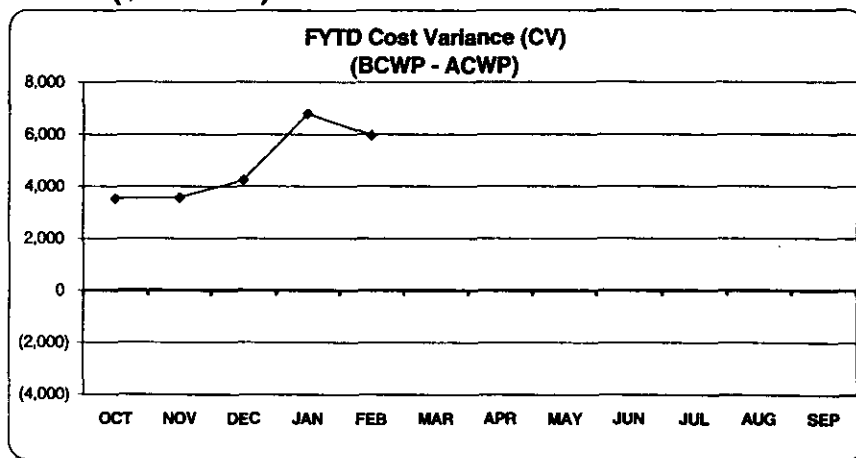
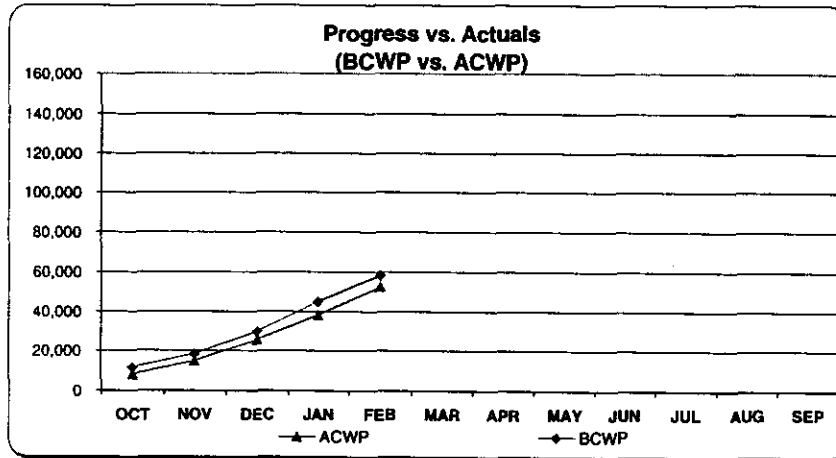


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,612	10,506	10,211	12,760	10,155	10,793	12,259	10,599	10,197	12,389	10,820	12,798
DWP (Accum)	11,612	22,118	32,330	45,090	55,245	66,037	78,296	88,895	99,092	111,481	122,301	135,100
CURRENT PERIOD												
BCWS	14,558	8,508	12,288	15,102	13,068	13,864	16,396	12,946	12,156	13,561	11,358	14,322
BCWP	11,711	6,838	11,396	15,035	13,338	-	-	-	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	14,558	23,066	35,354	50,456	63,524	77,388	93,784	106,731	118,886	132,447	143,805	158,127
BCWP	11,711	18,550	29,946	44,981	58,319	-	-	-	-	-	-	-
SV	(2,847)	(4,516)	(5,408)	(5,475)	(5,205)	-	-	-	-	-	-	-
SV%	-19.6%	-19.6%	-15.3%	-10.9%	-8.2%	-	-	-	-	-	-	-
Yr End Sch Carry Over	268	353	240	320	192	-	-	-	-	-	-	-

PROJECT OVERVIEW

TPA First Quarter Review

COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	8,190	6,786	10,729	12,465	14,171	-	-	-	-	-	-	-	-
BCWP	11,711	6,838	11,396	15,035	13,338	-	-	-	-	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	-	-	-	-	-	-	-	-
BCWP	11,711	18,550	29,946	44,981	58,319	-	-	-	-	-	-	-	-
CV	3,521	3,574	4,240	6,811	5,978	-	-	-	-	-	-	-	-
CPI	0.70	0.81	0.86	0.85	0.90	-	-	-	-	-	-	-	-
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	68,481	85,829	99,533	111,553	125,572	137,635	152,414	152,606
Yr End Budget Var	1,967	3,638	4,793	5,074	5,521	-	-	-	-	-	-	-	192

ENVIRONMENTAL RESTORATION PROJECT**TPA First Quarter Review****Schedule Variance Report**

Project	Variance	Reason	Impact	Corrective Actions
ER01 – 100 Area Remedial Action	\$60K	On schedule.	None	Schedule improvement due to contractor accelerating DR backfill production.
ER02 - 200 Area Remedial Action	(\$111K)	Miscellaneous assessment work rescheduled.	None	None required.
ER03 - 300 Area Remedial Action	(\$217K)	Delay in loadout of waste at Landfill 1D while waiting for regulator variance – minor impact – not on critical path. Subcontractor has elected to work Landfill 1B before 1A as originally scheduled - temporary schedule variance – will complete remediation on schedule.	None	None required; will complete on schedule. Actually ahead of schedule based on tonnage quantities.
ER04 – Environmental Restoration Waste Disposal	(\$48K)	Late start on ERDF closure design.	None	None required – not critical – can complete before September.
ER05 – Surveillance/ Maintenance & Transition	(\$498K)	Preparation and submittal of an unplanned Waste Management Plan to Regulators for 105-KE legacy waste removal delayed start of field activities. CDI process cell access work delayed due to canyon crane being down for repairs.	None	The Waste Management Plan has been completed, and field activities commenced in late December; additional craft resources were added to help recover schedule. Crane NDE completed and recommendations implemented; schedule will be recovered.
ER06 – Decontamination and Decommissioning Project	(\$528K)	233-S decommissioning delay in removal of roof duct and decon due to replacement of deteriorated glove bag; late receipt of waste containers and CAM equipment at 233-S. 224-B entry was restricted due to inoperable B-Plant exhaust system.	None	Duct removal started in late February was completed in mid-March – will correct variance; procurement will increase in next few months and place purchases back on schedule. Initiated planning for 224-B walkdowns without facility ventilation; expect to achieve entry in late March.

Schedule Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER08 - Groundwater Management	(\$2,024K)	Groundwater Monitoring sample collection and analysis (PNNL) fell behind schedule in October/November, due to difficulties in obtaining NCO bargaining unit personnel, and has not yet recovered. Waste shipments and regeneration at Pump and Treat units have been delayed due to equipment availability problems; no significant impact. 100-HR-3 delay in shipment of waste to ERDF, resin regeneration, and ISRM subcontract activities.	Unexpected sampling at the 618-11 Burial Ground will impact recovery timing; full recovery is not expected before summer.	Additional NCOs have been added and a recovery schedule implemented. Waste shipments have been scheduled through Fluor Hanford, and resin purchase delays will be recovered in spring.
ER10 - ERC Program Management and Support	(\$1,027K)	Late billing on site-wide assessments.	N/A	RL is discussing billing/timing with other site contractors.
VZ01- Site-Wide Groundwater/Vadose Zone Integration Project	(\$811K)	Integration planning is behind schedule, due to resource availability to support Logic Diagram. Peer Review – The National Academy of Science meeting date was changed to April. Science and Technology – The S&T Roadmap is behind, due to resource availability. Late award of other National Lab contracts, plus field investigations were incorrectly scheduled in the DWP.	Recoverable	Dedicated resources are now assigned and schedule is expected to be recovered. Policy Work group is delayed to early April to better achieve objective of group; no impact to successor activities. Schedule variance will be eliminated when the meeting is held. Dedicated resources have been assigned and issuance of the Roadmap document is scheduled for April. Variance will continue to grow for several months then diminish throughout the remainder of the fiscal year.
Total	(\$5,204K)			

ENVIRONMENTAL RESTORATION PROJECT**TPA First Quarter Review****Cost Variance Report**

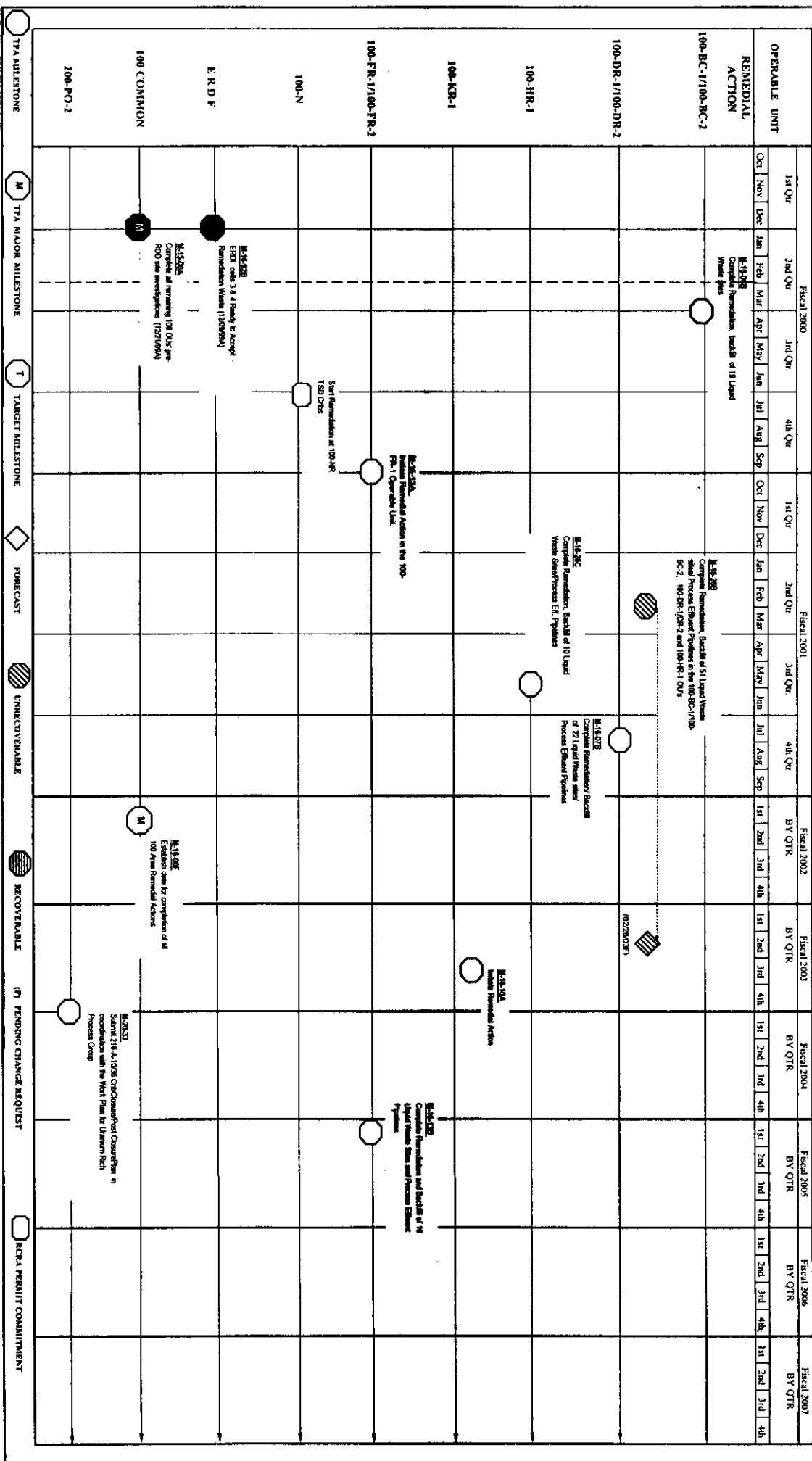
Project	Variance	Reason	Impact	Corrective Actions
ER01 – 100 Area Remedial Action	\$2,165K	DR contract award on small sites excavation was less then budgeted; FR savings in site prep and staff reductions; labor savings on B/C backfill activities.	Cost underrun	Savings will be used to perform other remediation work.
ER02 – 200 Area Remedial Action	\$964K	Borehole drilling was combined with RCRA drilling resulting in cost savings; efficiencies learned in prior work were applied to Gable Mountain and B-Pond test pit trenching, resulting in savings; number of samples required was reduced.	Cost underrun	Savings will be used to perform other remediation work.
ER03 - 300 Area Remedial Action	\$1,019K	Management and administrative cost efficiencies at Landfills 1A/1B, and \$500K under accrual in South Process Pond remediation.	Cost underrun	Savings will be used to perform other remediation work.
ER04 - Environmental Restoration Waste Disposal	\$1,275K	Reflects FY99 over accrual.	Cost underrun	Underrun will be used to perform other remediation work.
ER05 - Surveillance/ Maintenance & Transition	(\$161K)	Canyon crane NDE testing and repair not anticipated; PUREX shotcreting and roof inspections were unanticipated work.	None	BCP approved for NDE testing; roof repair work trended.
ER06 – Decontamination and Decommissioning Projects	\$272K	ISS general equipment usage less than planned due to dual project usage. 233-S – Additional cost to correct air flow and installing electrical upgrades in the viewing room; unexpected difficulties resulted in extra cost to remove glovebag from the Loadout hood area.	Cost underrun	Continue to monitor costs. Savings will be used to perform other remediation work. 233-S cost overruns are being trended. Engineering controls have been implemented to resume characterization activities.
ER08 - Groundwater Management	\$259K	Fewer support personnel were required than planned.	Cost underrun	Savings will be used to perform other remediation work.
ER10 - ERC Program Management and Support	\$44K	On budget.		

ENVIRONMENTAL RESTORATION PROJECT**TPA First Quarter Review****Cost Variance Report**

Project	Variance	Reason	Impact	Corrective Actions
VZ01 – Site-Wide Groundwater /Vadose Zone Integration Project	\$150K	Costs of system assessment; capability development less than planned.	Cost underrun	Savings will be used to perform other remediation work.
Total	\$5,979K			

TPA First Quarter Review

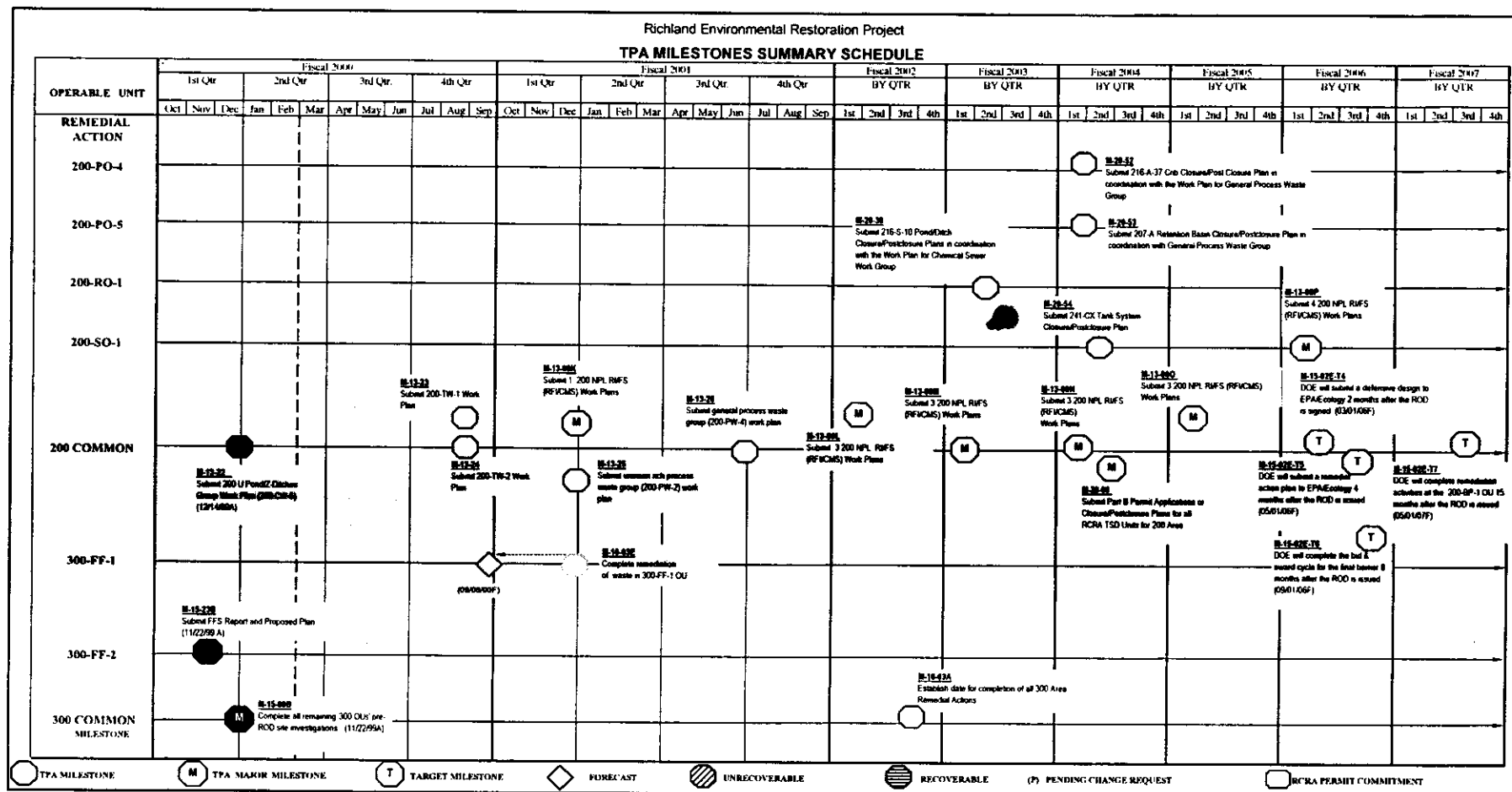
Richard Environmental Restoration Project TPA Milestones Summary Schedule



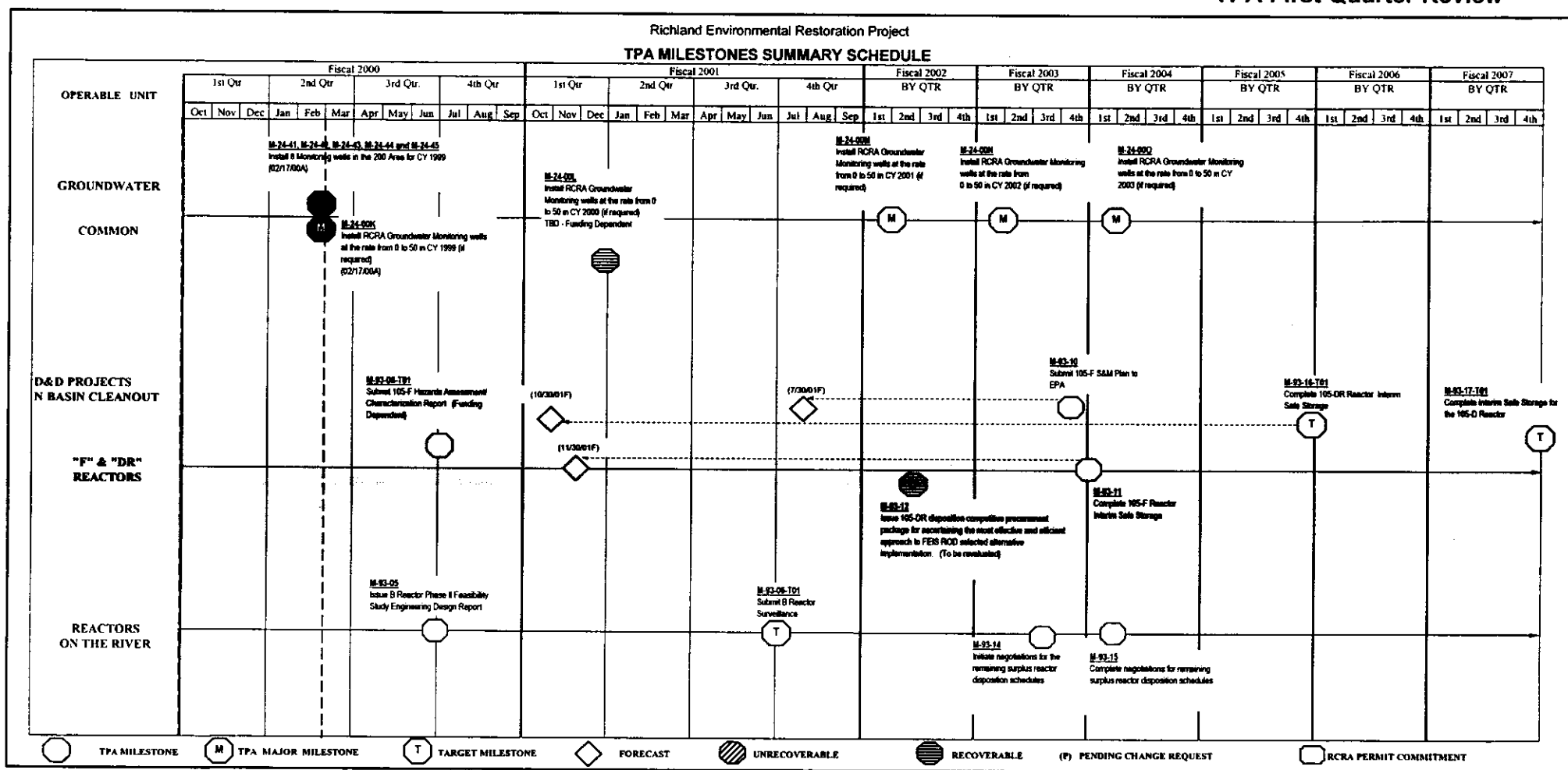
M-16-03 F (TBD) "Complete Excavation, Verification, Soil, And Drummed Waste Treatment and Disposal, and Backfilling of the 618-4 Burial Ground"

Environmental Restoration TPA Quarterly Review (03/00)

TPA First Quarter Review



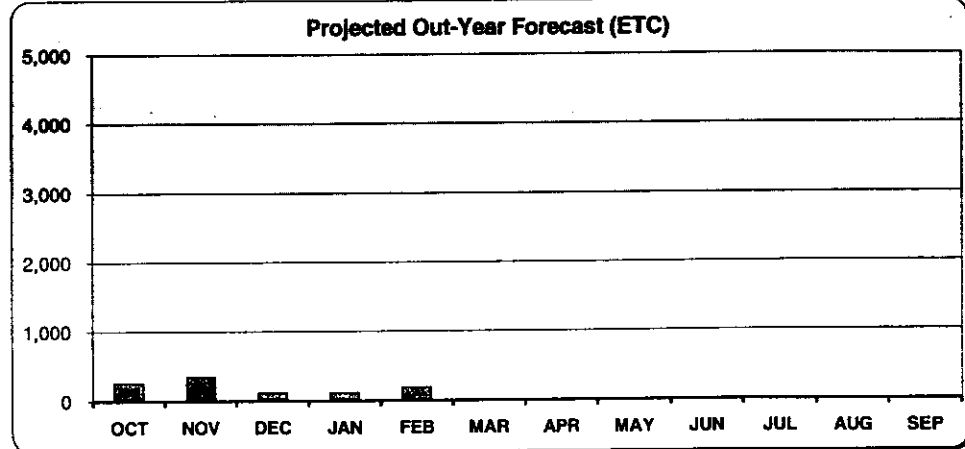
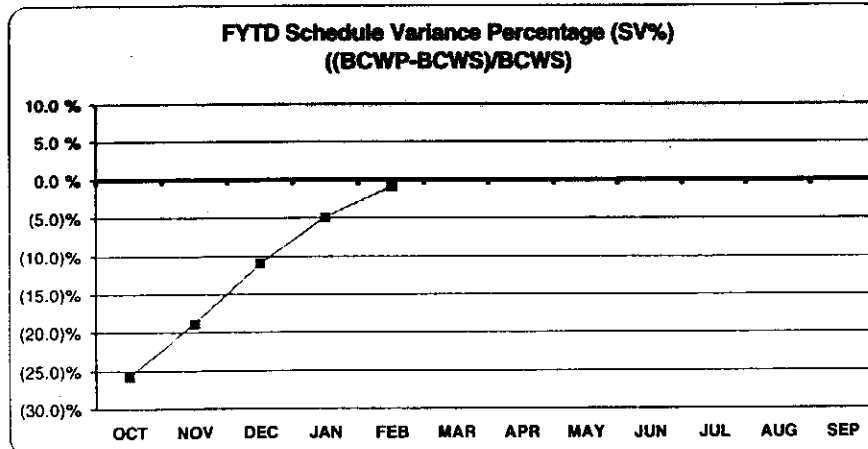
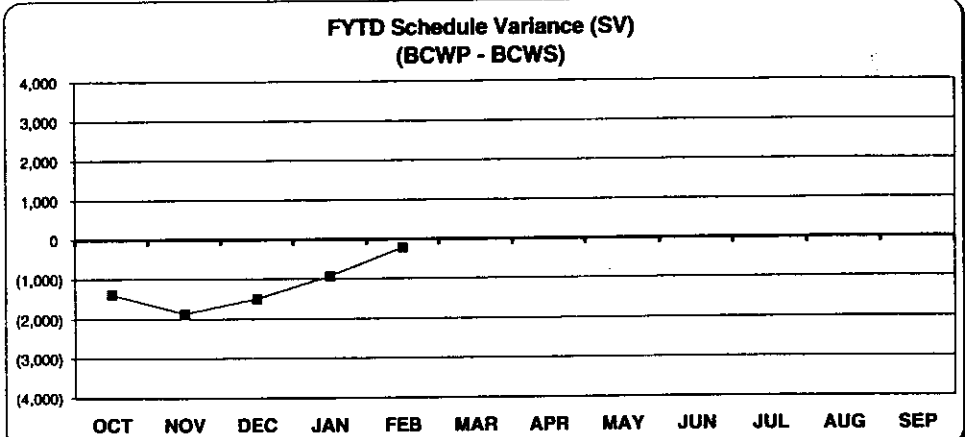
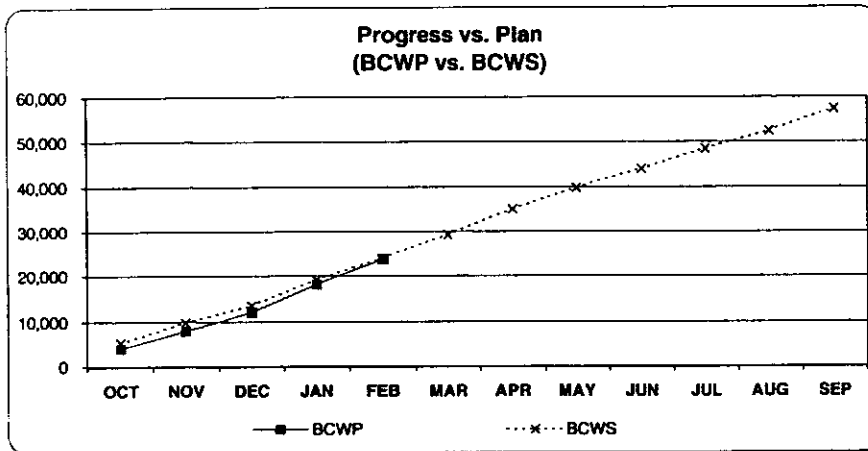
TPA First Quarter Review



REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

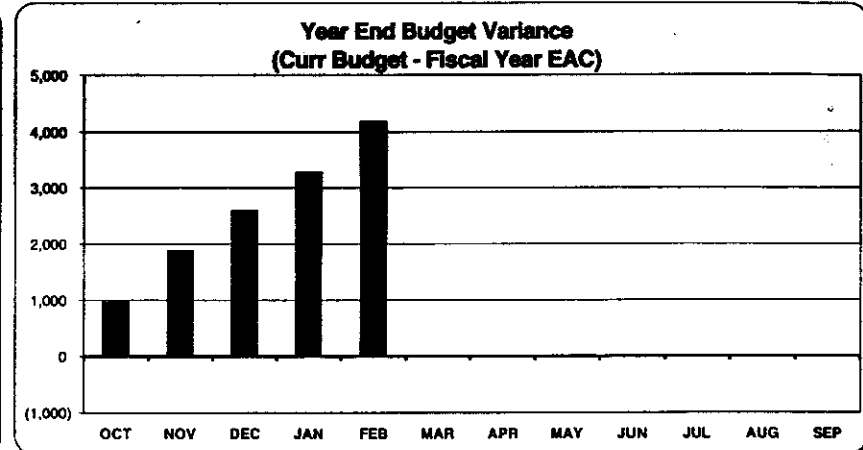
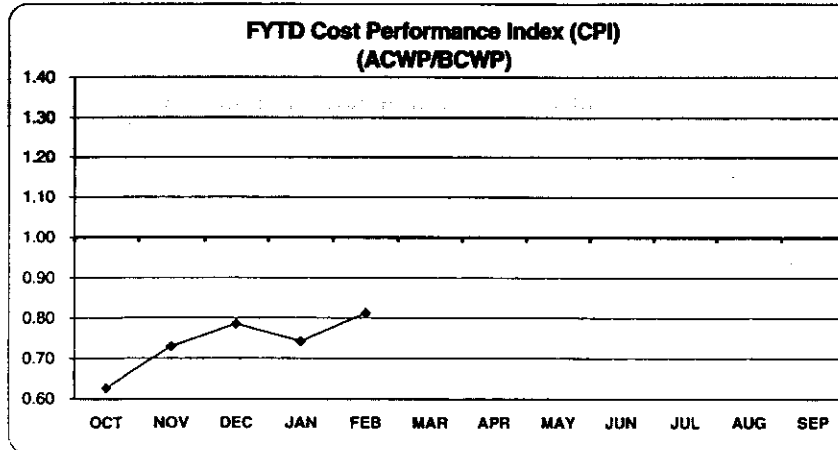
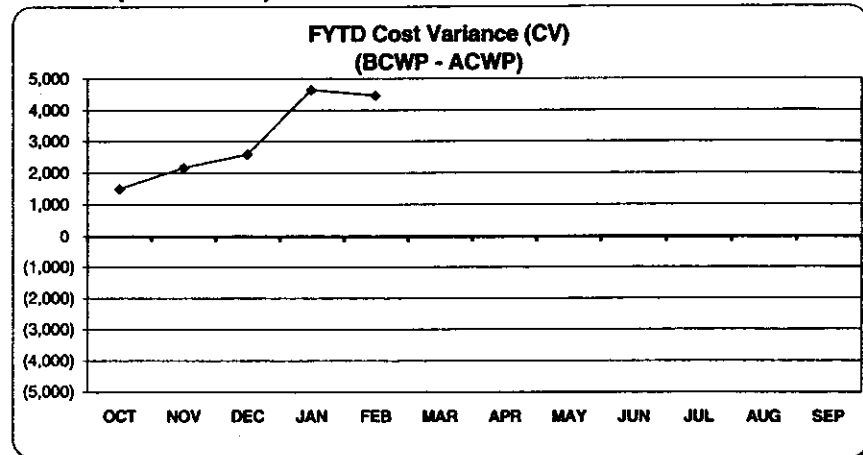
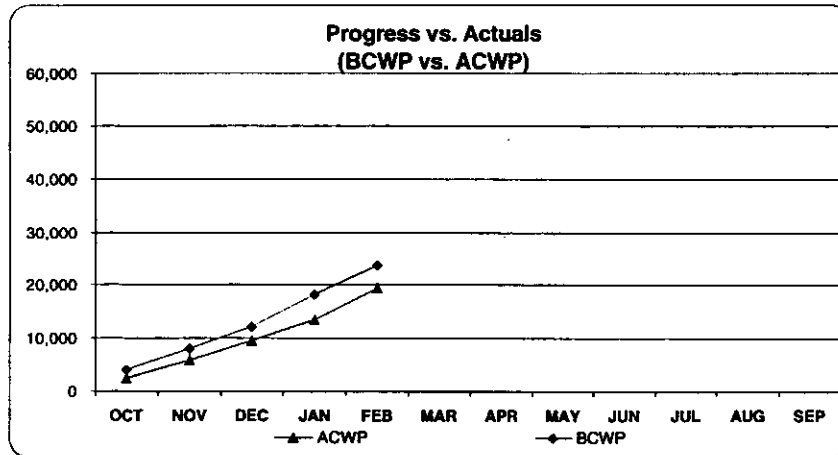


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	3,555	3,121	3,126	3,902	3,552	3,916	4,299	3,622	3,539	4,157	4,285	5,594
DWP (Accum)	3,555	6,676	9,802	13,703	17,256	21,171	25,470	29,092	32,631	36,788	41,073	46,667
CURRENT PERIOD												
BCWS	5,355	4,498	3,726	5,547	4,921	5,185	5,808	4,701	4,269	4,421	4,019	4,920
BCWP	3,974	4,012	4,109	6,093	5,653	-	-	-	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	5,355	9,853	13,580	19,126	24,047	29,233	35,040	39,741	44,010	48,431	52,450	57,370
BCWP	3,974	7,986	12,095	18,188	23,842	-	-	-	-	-	-	-
SV	(1,381)	(1,868)	(1,485)	(938)	(206)	-	-	-	-	-	-	-
SV%	-25.8%	-19.0%	-10.9%	-4.9%	-0.9%	-	-	-	-	-	-	-
Yr End Sch Carry Over	268	353	119	120	192	-	-	-	-	-	-	-

REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

TPA First Quarter Review

COST PERFORMANCE (\$'s in 000)

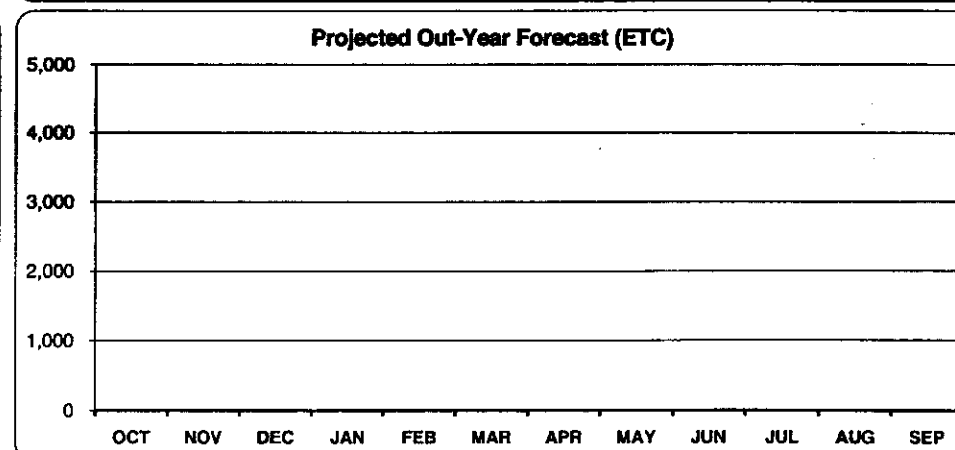
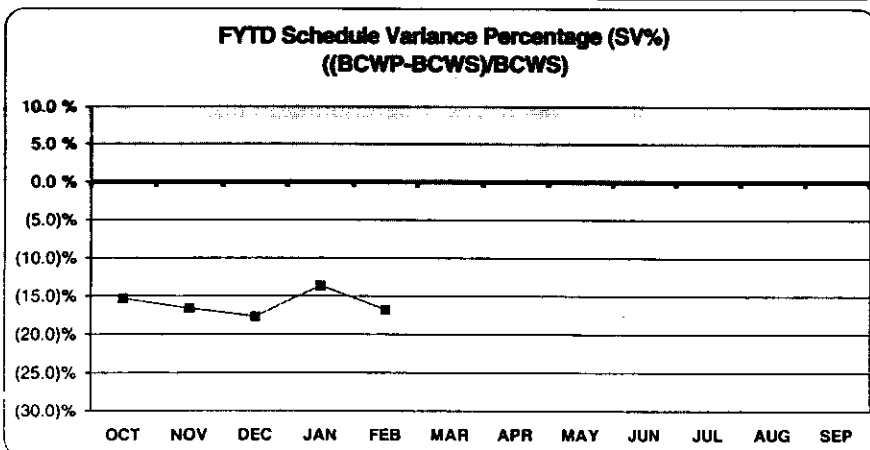
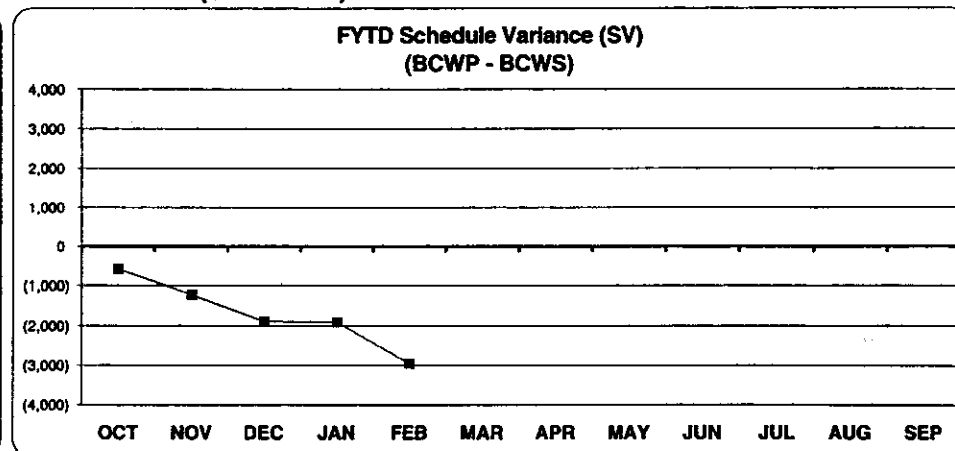
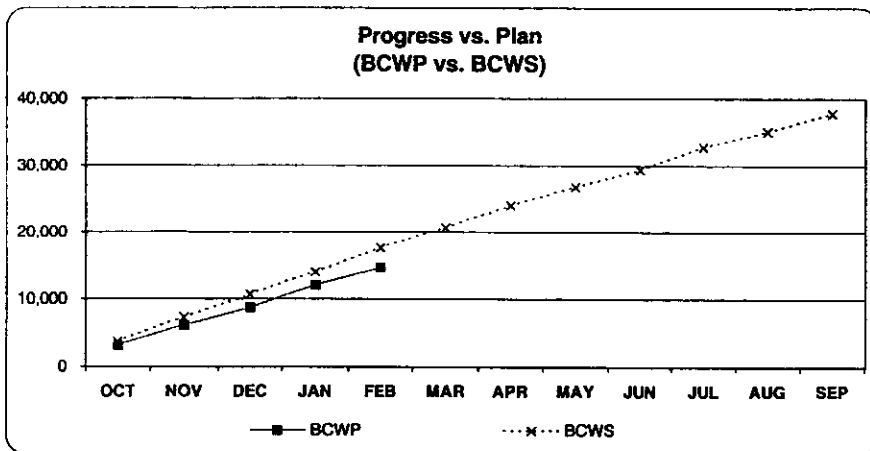


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	2,489	3,352	3,670	4,022	5,850	-	-	-	-	-	-	-	-
BCWP	3,974	4,012	4,109	6,093	5,653	-	-	-	-	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	2,489	5,841	9,511	13,533	19,383	-	-	-	-	-	-	-	-
BCWP	3,974	7,986	12,095	18,188	23,842	-	-	-	-	-	-	-	-
CV	1,485	2,145	2,584	4,655	4,458	-	-	-	-	-	-	-	-
CPI	0.63	0.73	0.79	0.74	0.81	-	-	-	-	-	-	-	-
EAC (Cumulative)	2,489	5,841	9,511	13,533	19,383	25,039	30,934	35,351	39,207	43,768	47,991	52,992	53,184
Yr End Budget Var	974	1,886	2,596	3,278	4,186	-	-	-	-	-	-	-	192

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

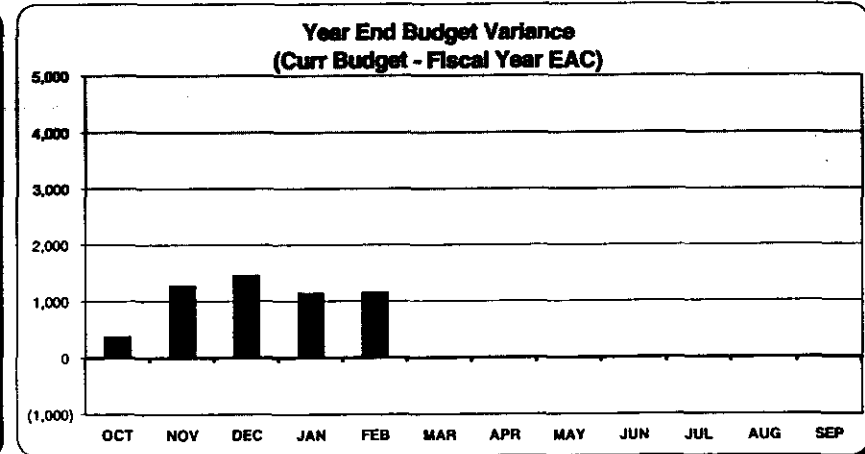
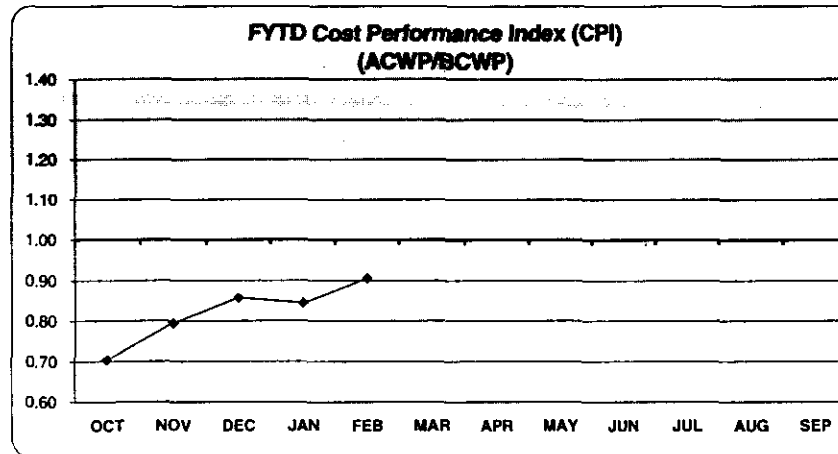
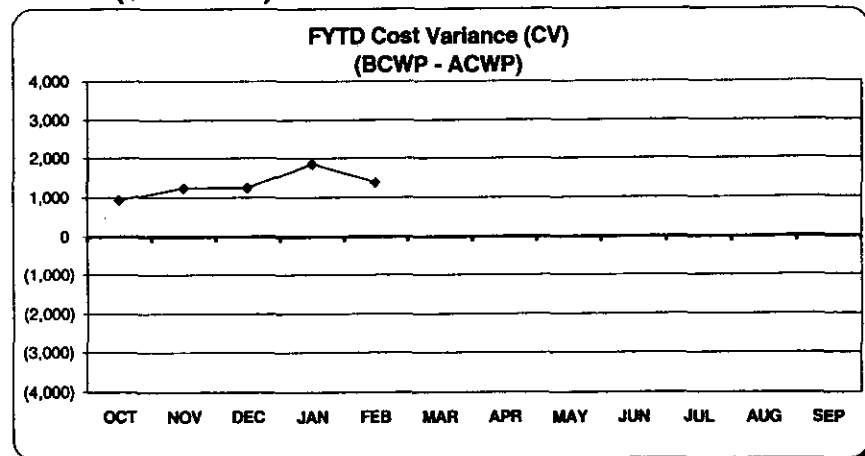
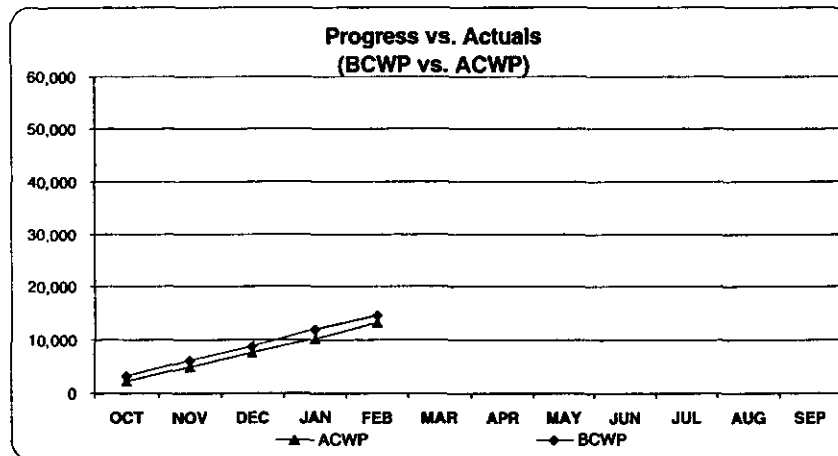


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	3,177	3,115	2,799	3,704	2,617	2,701	2,962	2,592	2,547	3,276	2,470	2,292
DWP (Accum)	3,177	6,292	9,091	12,795	15,412	18,114	21,076	23,668	26,215	29,491	31,961	34,253
CURRENT PERIOD												
BCWS	3,742	3,588	3,358	3,225	3,646	3,092	3,427	2,733	2,636	3,296	2,391	2,629
BCWP	3,168	2,940	2,688	3,217	2,600	-	-	-	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	3,742	7,330	10,688	13,912	17,559	20,651	24,078	26,811	29,447	32,744	35,134	37,764
BCWP	3,168	6,108	8,796	12,013	14,613	-	-	-	-	-	-	-
SV	(574)	(1,222)	(1,892)	(1,899)	(2,946)	-	-	-	-	-	-	-
SV%	-15.4%	-16.7%	-17.7%	-13.6%	-16.8%	-	-	-	-	-	-	-
Yr End Sch Carry Over	-	-	-	-	-	-	-	-	-	-	-	-

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

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COST PERFORMANCE (\$'s in 000)

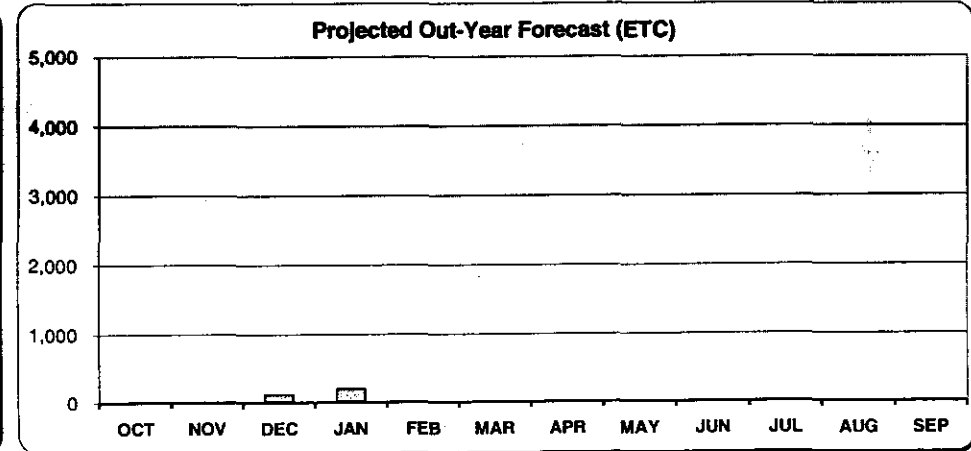
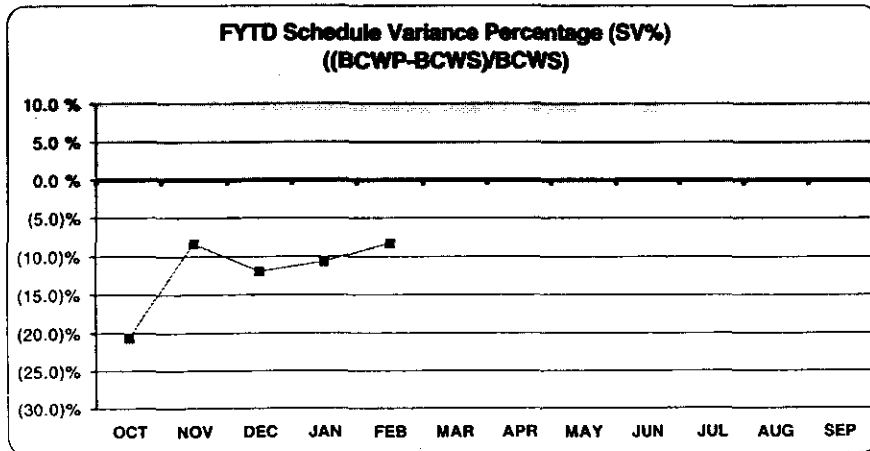
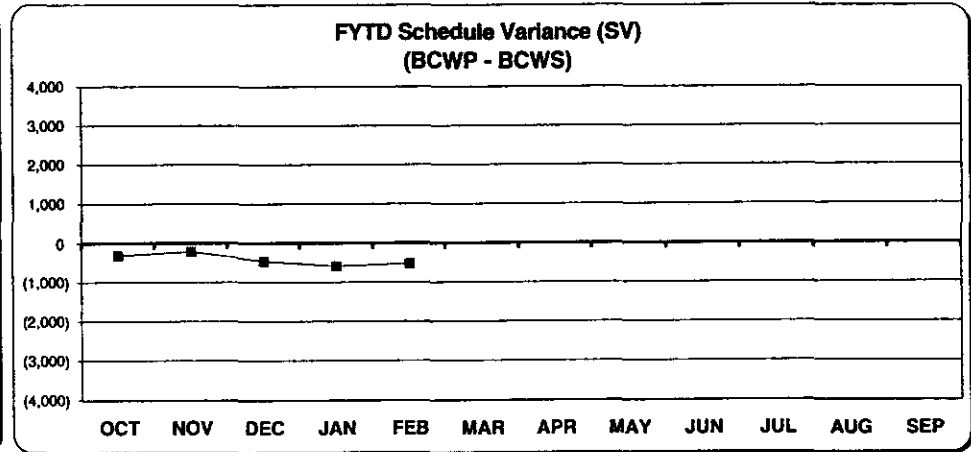
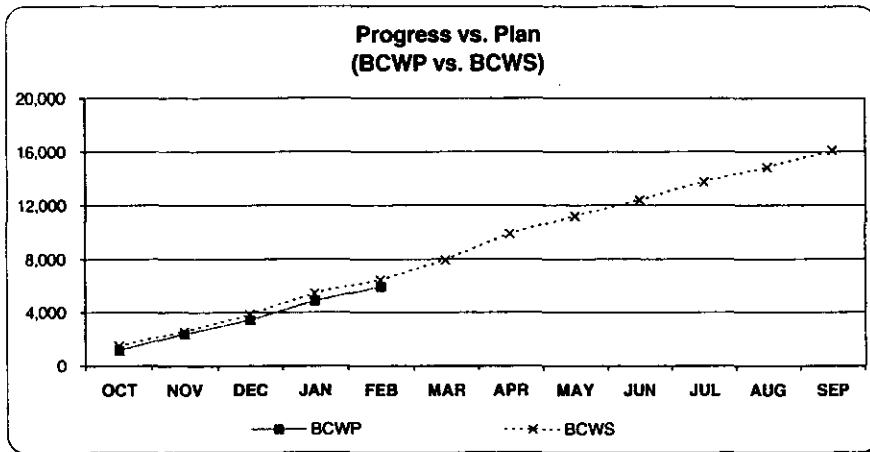


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	2,233	2,631	2,682	2,611	3,081	-	-	-	-	-	-	-	-
BCWP	3,168	2,940	2,688	3,217	2,600	-	-	-	-	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	2,233	4,864	7,546	10,158	13,239	-	-	-	-	-	-	-	-
BCWP	3,168	6,108	8,796	12,013	14,613	-	-	-	-	-	-	-	-
CV	935	1,244	1,250	1,856	1,374	-	-	-	-	-	-	-	-
CPI	0.70	0.80	0.86	0.85	0.91	-	-	-	-	-	-	-	-
EAC (Cumulative)	2,233	4,864	7,546	10,158	13,239	17,328	21,467	25,012	27,771	31,113	33,649	36,598	36,598
Yr End Budget Var	379	1,280	1,458	1,151	1,166	-	-	-	-	-	-	-	-

DECOMMISSIONING PROJECTS

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

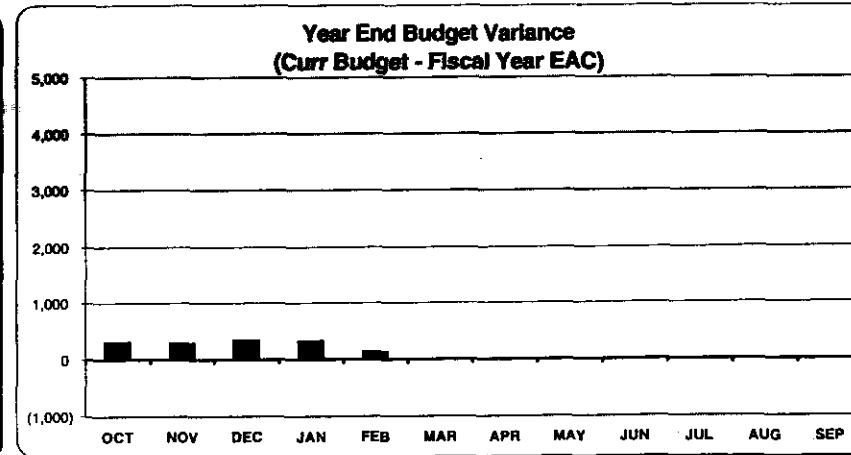
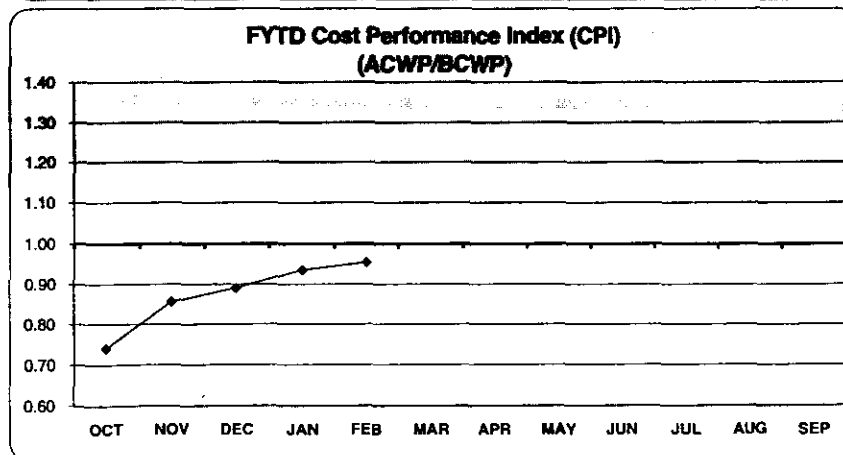
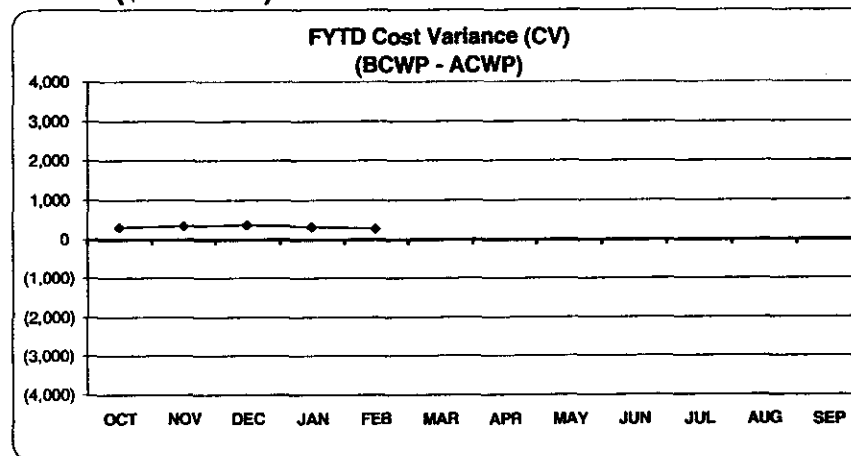
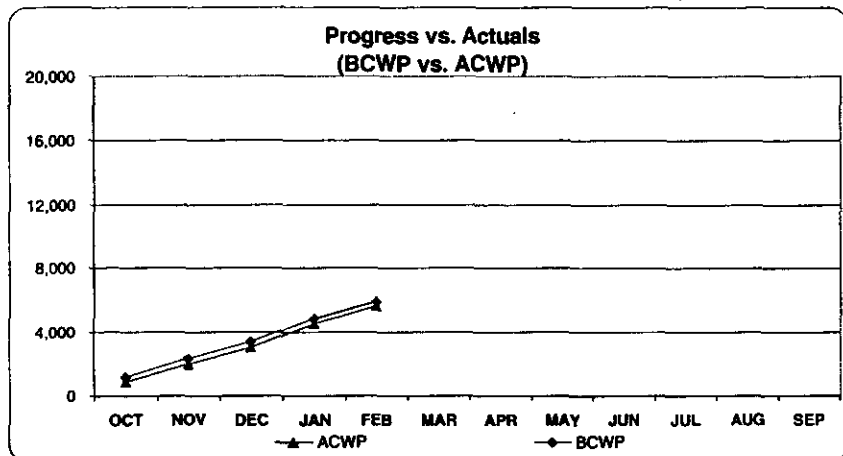


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,279	1,089	1,079	791	572	516	587	509	424	562	443	595
DWP (Accum)	1,279	2,368	3,446	4,237	4,809	5,325	5,913	6,421	6,846	7,408	7,850	8,445
CURRENT PERIOD												
BCWS	1,467	1,086	1,300	1,588	982	1,489	1,981	1,334	1,184	1,353	1,102	1,248
BCWP	1,164	1,175	1,051	1,466	1,037	-	-	-	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	1,467	2,553	3,852	5,440	6,422	7,911	9,891	11,225	12,409	13,762	14,864	16,112
BCWP	1,164	2,339	3,390	4,856	5,894	-	-	-	-	-	-	-
SV	(304)	(214)	(462)	(584)	(528)	-	-	-	-	-	-	-
SV%	-20.7%	-8.4%	-12.0%	-10.7%	-8.2%	-	-	-	-	-	-	-
Yr End Sch Carry Over	-	-	121	200	-	-	-	-	-	-	-	-

DECOMMISSIONING PROJECTS

TPA FIRST QUARTER REVIEW

COST PERFORMANCE (\$'s in 000)

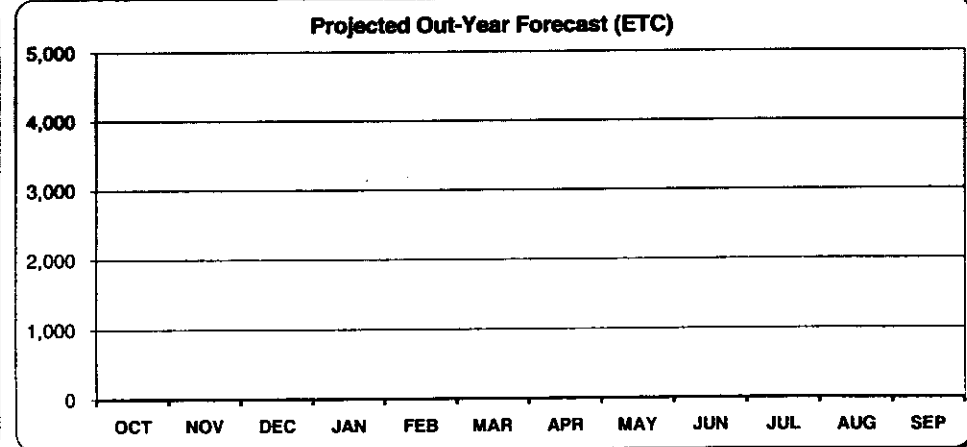
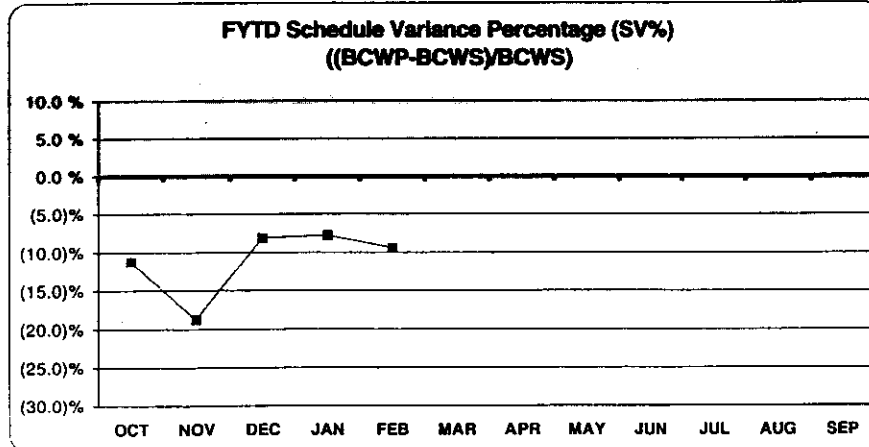
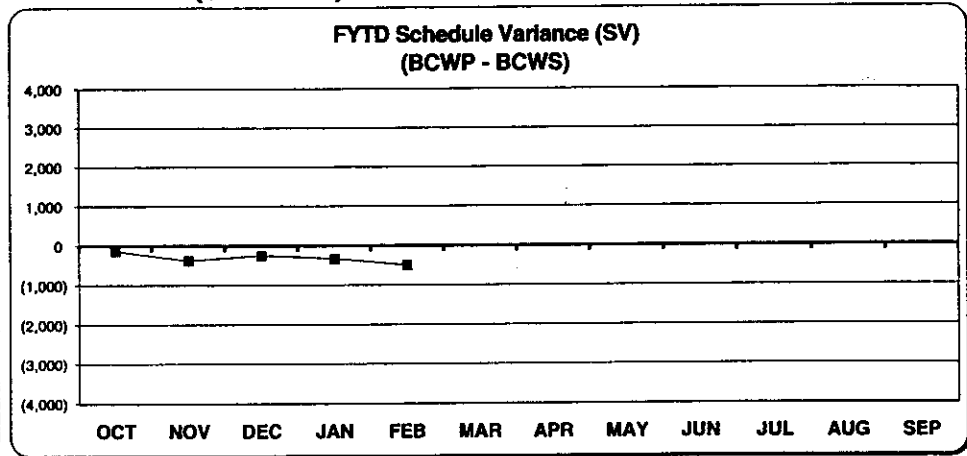
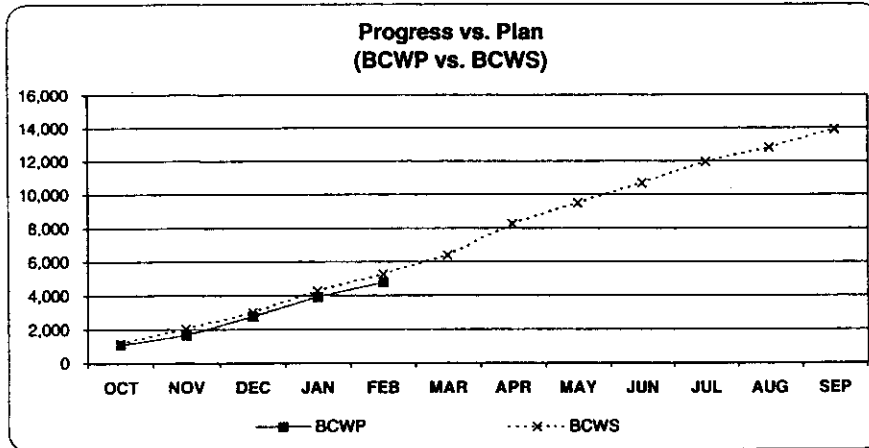


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	864	1,138	1,017	1,523	1,081	-	-	-	-	-	-	-	-
BCWP	1,164	1,175	1,051	1,466	1,037	-	-	-	-	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	864	2,002	3,019	4,542	5,623	-	-	-	-	-	-	-	-
BCWP	1,164	2,339	3,390	4,856	5,894	-	-	-	-	-	-	-	-
CV	300	337	371	315	271	-	-	-	-	-	-	-	-
CPI	0.74	0.86	0.89	0.94	0.95	-	-	-	-	-	-	-	-
EAC (Cumulative)	864	2,002	3,019	4,542	5,623	7,455	9,638	10,960	12,133	13,573	14,651	15,967	15,967
Yr End Budget Var	320	312	352	345	145	-	-	-	-	-	-	-	-

SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

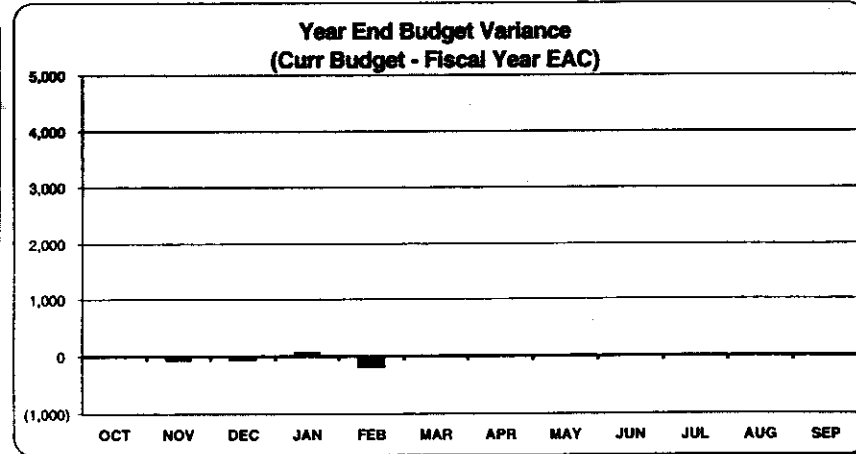
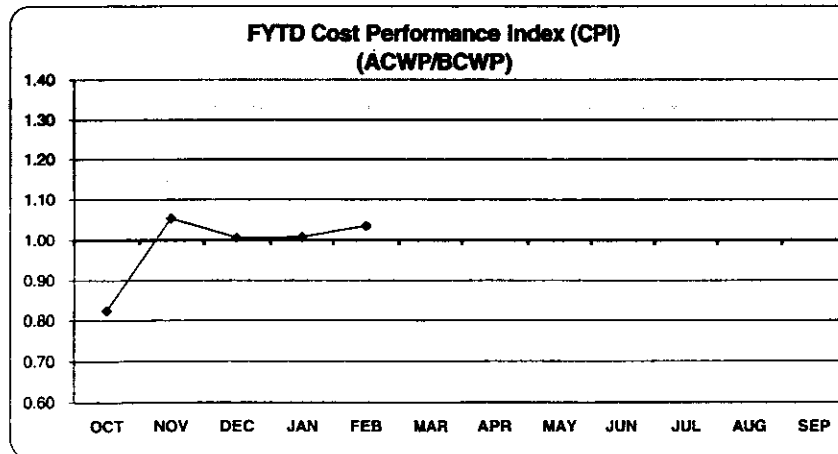
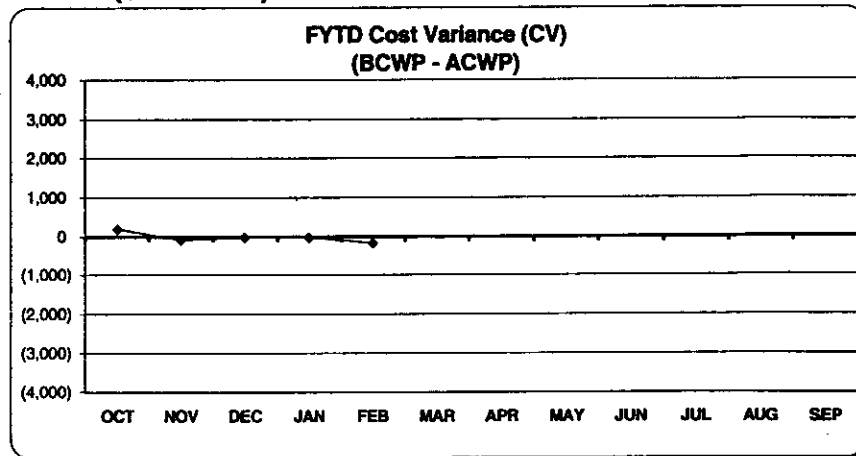
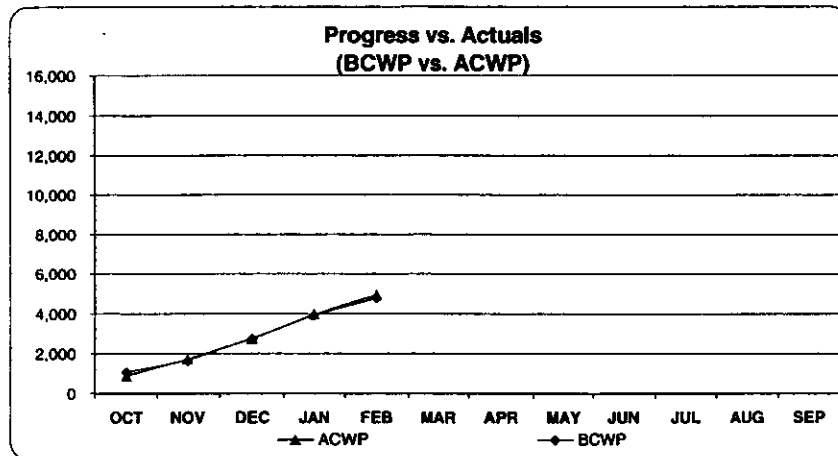


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	873	852	879	1,209	927	1,040	1,082	1,182	1,115	1,160	943	1,075
DWP (Accum)	873	1,724	2,604	3,812	4,739	5,779	6,862	8,044	9,159	10,319	11,263	12,338
CURRENT PERIOD												
BCWS	1,198	824	972	1,261	1,006	1,106	1,885	1,249	1,183	1,270	871	1,084
BCWP	1,063	580	1,108	1,174	837	-	-	-	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	1,198	2,022	2,994	4,255	5,261	6,367	8,252	9,501	10,684	11,954	12,825	13,910
BCWP	1,063	1,643	2,751	3,925	4,762	-	-	-	-	-	-	-
SV	(134)	(379)	(242)	(330)	(499)	-	-	-	-	-	-	-
SV%	-11.2%	-18.7%	-8.1%	-7.8%	-9.5%	-	-	-	-	-	-	-
Yr End Sch Carry Over	-	-	-	-	-	-	-	-	-	-	-	-

SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

TPA First Quarter Review

COST PERFORMANCE (\$'s in 000)

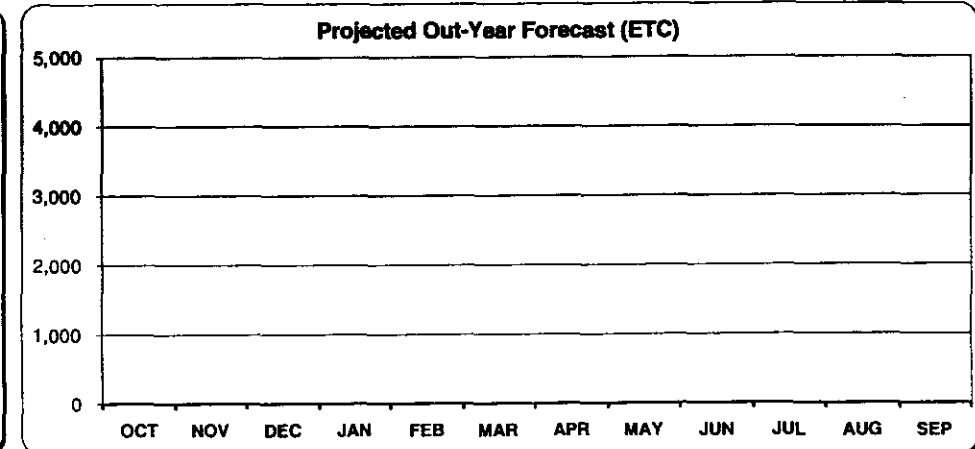
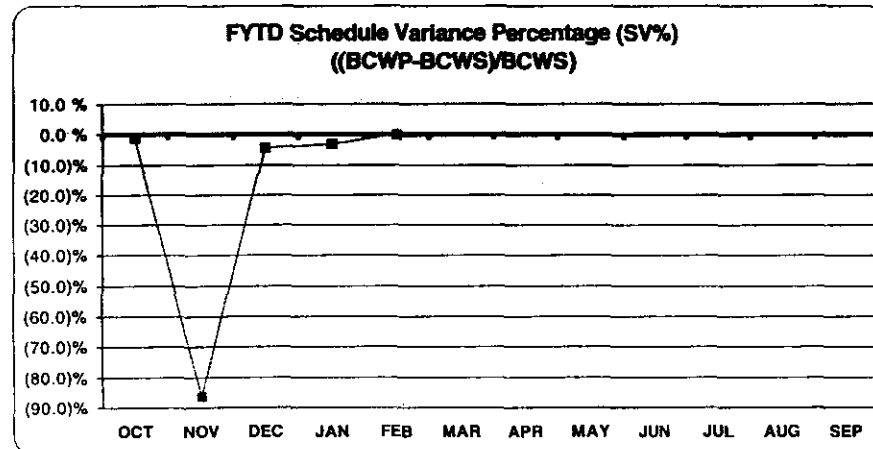
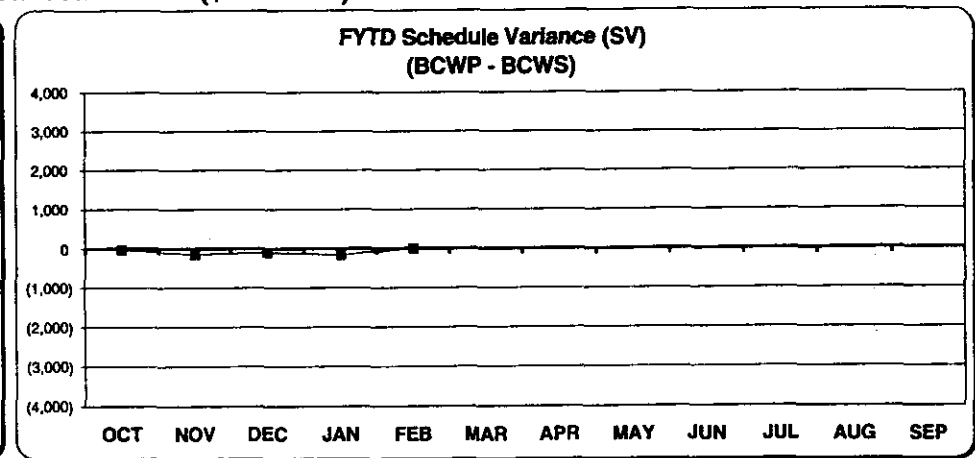
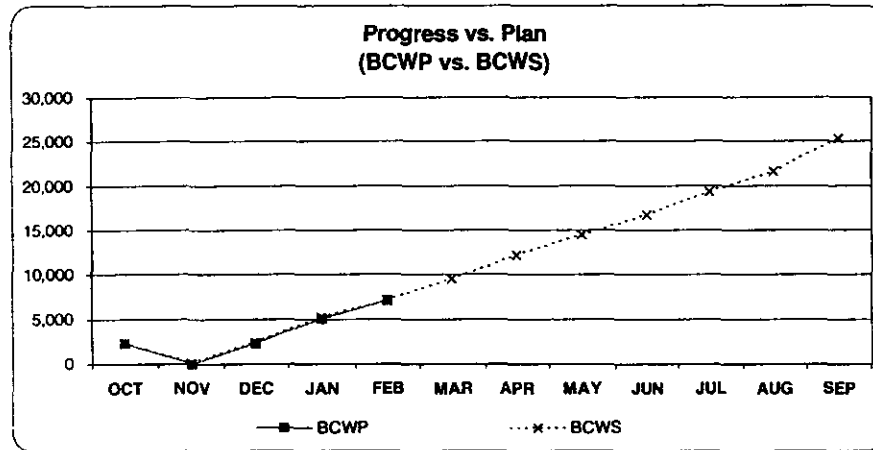


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	877	856	1,036	1,187	975	-	-	-	-	-	-	-	-
BCWP	1,063	580	1,108	1,174	837	-	-	-	-	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	877	1,733	2,768	3,956	4,931	-	-	-	-	-	-	-	-
BCWP	1,063	1,643	2,751	3,925	4,762	-	-	-	-	-	-	-	-
CV	186	(89)	(17)	(31)	(169)	-	-	-	-	-	-	-	-
CPI	0.82	1.05	1.01	1.01	1.04	-	-	-	-	-	-	-	-
EAC (Cumulative)	877	1,733	2,768	3,956	4,931	6,312	8,028	9,363	10,517	11,825	12,856	14,092	14,092
Yr End Budget Var	8	(50)	(55)	70	(182)	-	-	-	-	-	-	-	-

PROGRAM MANAGEMENT AND SUPPORT - ERC

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

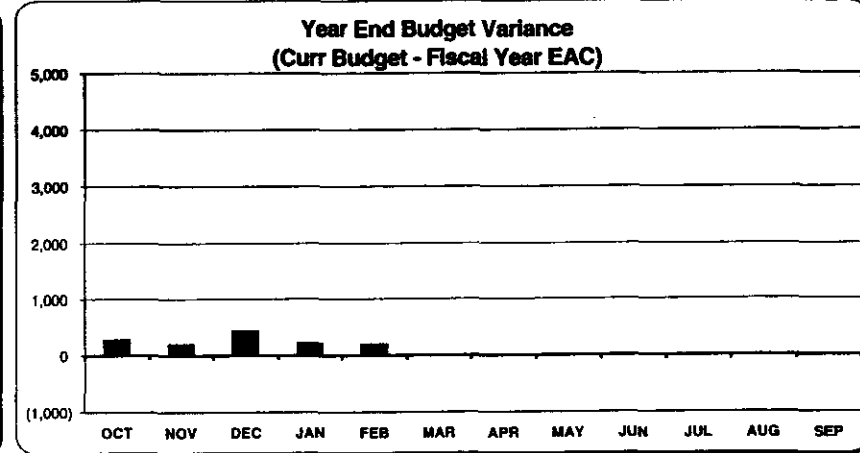
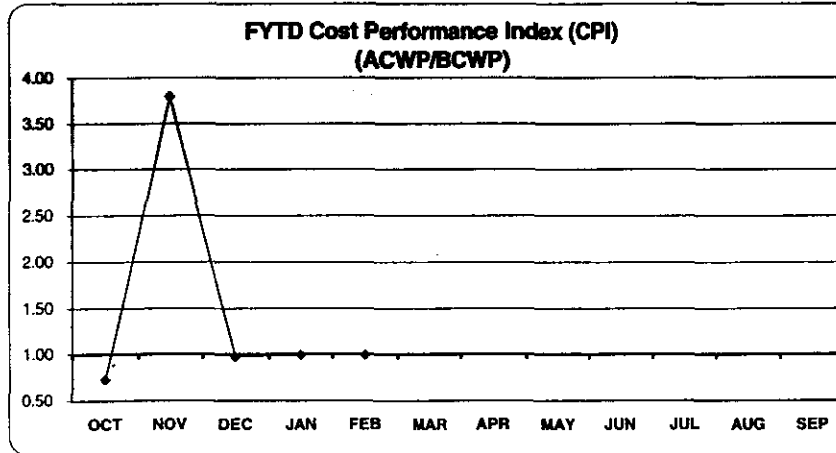
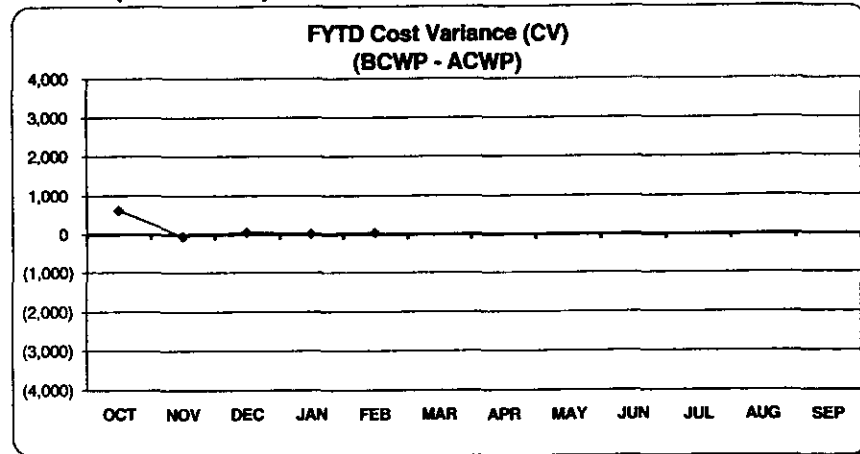
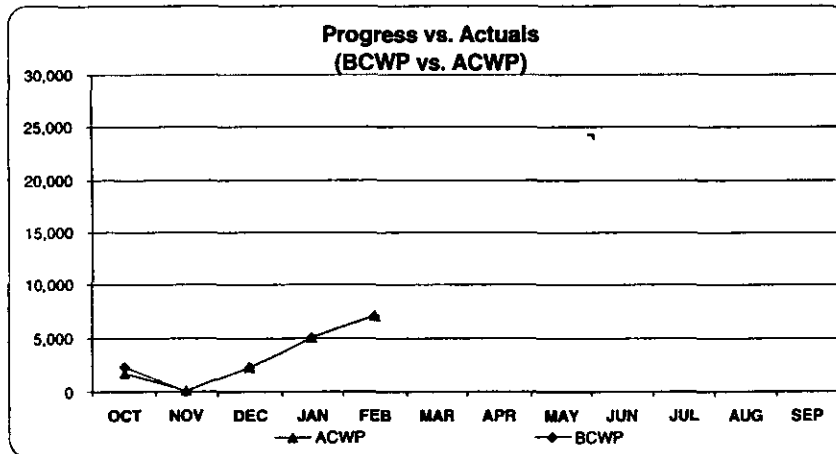


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	2,246	1,915	1,914	2,602	2,050	2,159	2,753	2,233	2,134	2,682	2,219	2,690
DWP (Accum)	2,246	4,161	6,075	8,677	10,727	12,886	15,639	17,872	20,006	22,688	24,907	27,597
CURRENT PERIOD												
BCWS	2,319	(2,154)	2,266	2,816	1,890	2,355	2,672	2,306	2,260	2,597	2,288	3,728
BCWP	2,293	(2,270)	2,304	2,757	2,051	-	-	-	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	2,319	165	2,431	5,247	7,137	9,492	12,164	14,470	16,730	19,327	21,615	25,344
BCWP	2,293	22	2,326	5,083	7,134	-	-	-	-	-	-	-
SV	(26)	(143)	(105)	(164)	(3)	-	-	-	-	-	-	-
SV%	(1.1)%	(86.4)%	(4.3)%	(3.1)%	0.0%	-	-	-	-	-	-	-
Yr End Sch Carry Over	0	-	-	-	-	-	-	-	-	-	-	-

PROGRAM MANAGEMENT AND SUPPORT - ERC

TPA First Quarter Review

COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	1,678	(1,592)	2,188	2,793	2,023	-	-	-	-	-	-	-	-
BCWP	2,293	(2,270)	2,304	2,757	2,051	-	-	-	-	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	1,678	85	2,274	5,067	7,090	-	-	-	-	-	-	-	-
BCWP	2,293	22	2,326	5,083	7,134	-	-	-	-	-	-	-	-
CV	615	(63)	53	16	44	-	-	-	-	-	-	-	-
CPI	0.73	3.80	0.98	1.00	0.99	-	-	-	-	-	-	-	-
EAC (Cumulative)	1,678	85	2,274	5,067	7,090	9,455	12,106	14,428	16,742	19,347	21,685	25,137	25,137
Yr End Budget Var	286	210	442	229	207	-	-	-	-	-	-	-	-

M-19-00 & M-91-00

WASTE MANAGEMENT DIVISION

Sen Moy and Russ Warren

March 2000

TPA MILESTONE
REVIEW

WASTE MANAGEMENT PROJECT

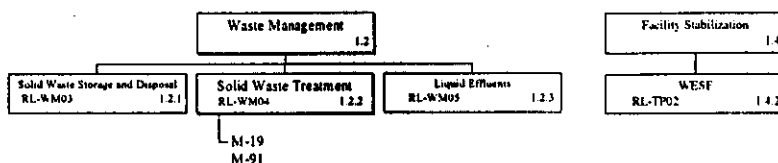
MARCH 2000

MILESTONE DESCRIPTION

TPA MILESTONE	DESCRIPTION
M-19-00	<p>Complete treatment and/or direct disposal of at least 1,644 cubic meters of contact handled low level mixed waste already in storage as of October 1, 1995, as well as newly generated Hanford Site low level mixed waste.</p> <p>Cumulative treatment and/or direct disposal rates will be at least 246 cubic meters by the end of FY 2000, 822 cubic meters by the end of FY 2001, and 1,644 cubic meters by the end of FY 2002.</p>
M-91-00	<p>Complete the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of all Hanford site TRU/TRUM, LLMW, and GTC3.</p>






TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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WORK BREAKDOWN STRUCTURE



TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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MILESTONE SCHEDULE

WBS (ADS)	BASELINE DATE	FISCAL YEAR 2000												
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.2.2 (RL-WM04) Solid Waste Treatment	6/30/00	(M-91-03)  Submit Hanford Site TRU/TRUM PMP to Ecology												On Schedule TRU Retrieval began July 22, 1999. 273 drums assayed. Partially funded in FY 2000 using FY1999 carryover (savings). Sanders to Wilson and Sherwood 9955073, 7/20/99
	9/30/00	(M-91-04) Complete Construction of Retrieval Facility. Initiate TRU Retrieval												
	9/30/00	(M-19-00) Cumulative Treatment Rate 246 cubic meters												
MILESTONE TYPES:		 M	TPA MILESTONE				 DOE-HQ	FORECAST						
	 I	TPA INTERIM				 DOE-RL	Treatment Rate							

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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MILESTONE SCHEDULE

WBS (ADS)	BASELINE DATE	FISCAL YEAR 2001												
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.2.2 (RL-WM14) Solid Waste Treatment	12/31/00					○ I								On Schedule Draft completed.
	12/31/00					○ I								On Schedule.
	6/30/00													Trench 34 in Disposal Mode September 15, 1999.
	9/30/01													Currently at 439 cubic meters (see Scorecard).
MILESTONE TYPES:		○ M	TPA MILESTONE		⊗	DOB-HQ		◇	FORECAST					
		○ I	TPA INTERIM		⊗	DOB-RL		△	Treatment Rate					

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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MILESTONE EXCEPTION REPORT

TPA MILESTONE	FUTURE MILESTONES IN JEOPARDY
M-91-07	"Complete Project W-113 for Post 1970 CH TRU/TRUM retrieval" by September 2004.

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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M-19 ACCOMPLISHMENTS

WBS 1.2.2.3	M-19-01-T03
	<u>LOW LEVEL MIXED WASTE TREATMENT</u>
Shipments of waste to ATG continue. As of 3/22/00 the base contract allotment (560 m ³) has been shipped. This represents an effective CWC storage volume reduction of 1234 m ³ .	
WERF Burn completed. Residues returned 2/29/00 for storage at CWC.	

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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M-19-00 SCORECARD

"Treat and/or directly dispose of at least 246 cubic meters of CH-LLMW by September 2000, 822 cubic meters by September 2001, and 1,644 by September 2002"	<u>Quantity in cubic meters</u>
M-19 Waste:	
- ATG Macroencapsulation (as of 3/22/00)	67
- Macroencapsulation Pilot (1997)	183
- Long Length Equipment (1996/1997)	95
- Backlog Soils Disposal (1997/1999)	79
- B Plant TBP Organic Liquid (1998)	11
- Mixed Waste from PNNL (1998)	2
- Lead Decontamination Project (1998)	1
- WT02/WP02 State-Only Waste (1999)	1
TOTAL M-19 WASTE	439

TPA MILESTONE
REVIEW

WASTE MANAGEMENT PROJECT

MARCH 2000

M-91 ACCOMPLISHMENTS

WBS
1.2.2.3

M-91
LLMW and TRU Waste Facilities

Began shipping retrieved TRU drums to CWC and completed relocation of LLW drums (from first campaign) to final disposal (Trench 33).

Records review is complete for over 800 suspect TRU drums to be retrieved in the next campaigns. About 70 drums are staged for assay in Campaign 2.

TRU Retrieval Project was finalist for Project Management Institute "Project of the Year."

Reconvened review team for TRU PMP. Reviewed about 75% of the document.

MLLW PMP concurred with by Ecology without comment, December 1999.

TPA MILESTONE
REVIEW

WASTE MANAGEMENT PROJECT

MARCH 2000

PLANNED ACTIONS

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-19-00	Treat 1060 cubic meters (560 m ³ is FY1999 scope, 500 m ³ is new scope) of mixed low-level waste using the non-thermal treatment contract with ATG. Treatment began in December 1999.	9/30/2000
M-19-00	Perform void fill and direct disposal of 375 containers of 200 LEF powders and 50 containers of Tank Farm Soils.	9/30/2000

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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PLANNED ACTIONS (continued)

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-91-03	Prepare the Hanford Site TRU/TRUM Waste Project Management Plan.	6/30/2000
M-91-04	Retrieve a minimum of 425 drums.	9/30/2000
M-91-12	Initiate Thermal Treatment of MLLW	12/31/2000

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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EXPENSE COST PERFORMANCE (\$ in Millions)

WBS	FY 2000 TO DATE (Feb)						AT COMPLETION				COMMENTS
	REQUESTED WORK SCHED	COST PERF	ACTUAL WORK PERF	VARIANCE SCHED	COST	BAC	EAC	F13F	EXPECTED FUND FY 2000	PROJECTED CARRYOVER WORK	
1.2.2.3 M-19 AND M-91 TREATMENT	1.4	0.8	0.8	<0.6>	0.0	5.7	5.7	6.0	7.1	0	Stretch funding: Treatment \$0.5 M TRU \$0.85 M not in BAC

TPA MILESTONE
REVIEW

WASTE MANAGEMENT PROJECT

MARCH 2000

EXPENSE COST VARIANCE ANALYSIS

WBS	COST VARIANCE \$8K	
	(Description and Cause:)	(Impacts and Corrective Action:)
1.2.2.3	<ul style="list-style-type: none">• None.	No impacts.

TPA MILESTONE
REVIEW

WASTE MANAGEMENT PROJECT

MARCH 2000

EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS	SCHEDULE VARIANCE \$575K	
	(Description and Cause:)	(Impacts and Corrective Action:)
1.2.2.3	<ul style="list-style-type: none">• Treatment wasn't initiated until December 22, 1999.	<ul style="list-style-type: none">• No impact. Working schedules adjusted to recover variance by fiscal year end, in spite of late start.

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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M-19 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-19-00		None.		

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	MARCH 2000
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M-91 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-91-07	6/99	Milestone cannot be accomplished as written due to funding limitations.	Replacement milestone will need to be renegotiated.	Replacement milestone will be based on funding profile.
M-91-12	3/00	Successful trial burns this summer by ATG, with acceptance by EPA/Ecology, is vital to Thermal Treatment.	Failure of trial burns may delay start of thermal treatment.	To be statused at 6:00 meeting.